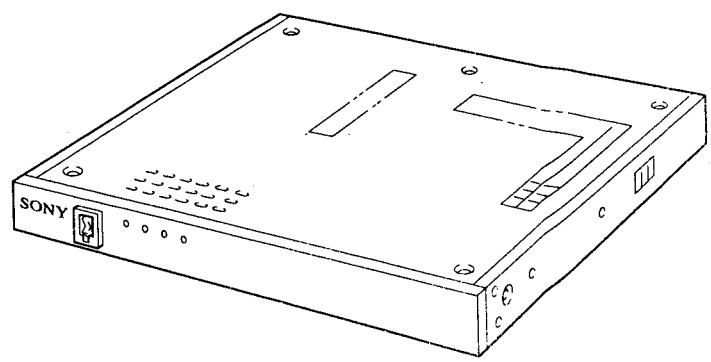
SONY

CAMERA ADAPTOR

YS-W250
YS-W250P

SERVICE MANUAL



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SAFETY RELATED COMPONENT WARNING

Components identified by shading and ⚠ marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

(For US model)

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC millimeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

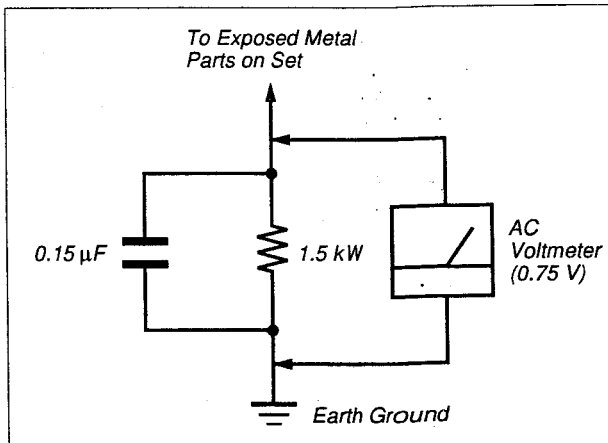


Fig.A. Using an AC voltmeter to check AC leakage.

SECTION 1
OPERATION

This section is extracted from instruction manual.

Features

The YS-W250/250P camera adaptor can be connected to any Sony SSC-series camera with multiplex transmission capability or the DXC-107A/107AP video camera module, providing it with power and an external synchronization signal while also transmitting the video output signal from the camera to a monitor. The adaptor has 4 camera input connectors and 8 video output connectors, allowing for connection of up to 4 cameras and 8 monitors.

- Only a single 75Ω coaxial cable is needed to connect to the camera. This cable carries the power supply, synchronization signal and video output signal.
- The unit has a built-in cable compensation circuit. This can switch the video signal compensation level to any of three levels, according to the length of the cable.
- The unit is provided with input/output sync connectors allowing one unit to supply a sync signal to up to 50 other YS-W250/250P units.
- Two video output connectors for each camera enable system flexibility.
- The built-in line lock function is useful when synchronizing a number of cameras.

Precautions

Power supply

- Be sure to operate the camera adaptor according to the power requirements outlined under "Specifications" on page 1-8.

Foreign objects

Be careful not to spill liquids, or drop any flammable or metal objects into the body of the unit.

Operating and storage locations

Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places (operating temperature: –10°C to +50°C [14°F to 122°F])
- In direct sunlight for long periods, or close to heating equipment
- Damp or dusty places
- Where it is exposed to rain
- Locations subject to strong vibration
- Near strong magnetic fields
- Close to generators producing powerful electromagnetic radiation, such as radio or TV transmitters

Care

- Clean the cabinet with a soft, dry cloth. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Avoid the use of volatile solvents such as alcohol, benzene, and thinners. They may damage the surface finish, or impair the operation of the unit.

Ventilation

Do not wrap the unit in a cloth, etc., during operation. This may cause the internal temperature to rise excessively and the camera adaptor to malfunction.

Miscellaneous

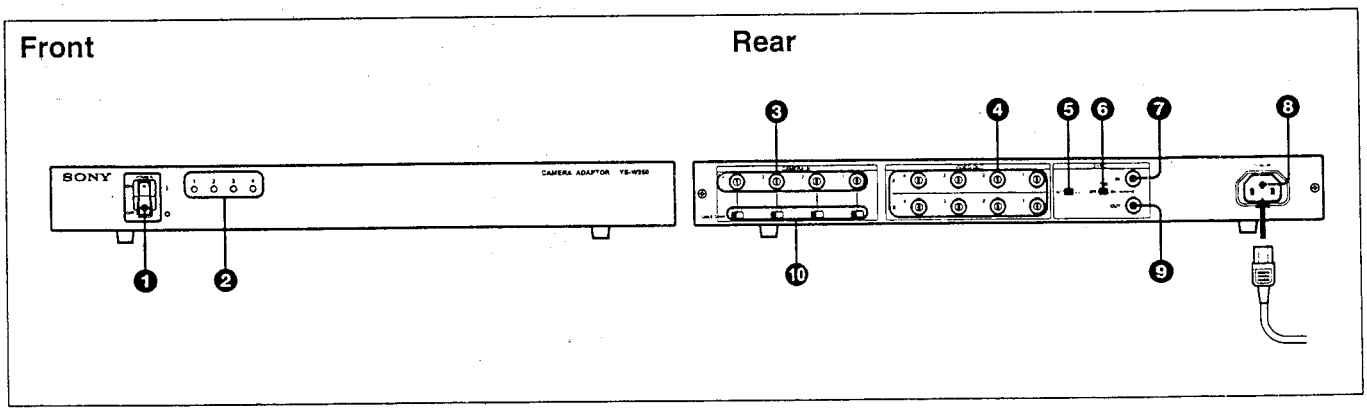
- Be careful not to spill water or other liquids on the unit or allow combustible or metallic objects inside the body. If used with foreign objects inside, the unit is liable to fail or cause a fire or an electric shock.
- If the product is transported or shipped, repack it as originally packed at the factory, or in materials equal in quality

Rack mounting

The unit can be mounted in an EIA standard 19-inch rack by attaching the rack mounting brackets and screws (supplied).

In the event of any problems with the operation of the camera adaptor, contact your authorized Sony dealer.

Location and Function of Parts and Controls



❶ POWER switch

Switches the power to the unit and the connected cameras on and off.

Notes

- If you connect a camera to this unit after switching the power on, the camera will not operate. Be sure to complete connections before switching the power on.
- If you switch the power off and want to switch it back on, wait three or four seconds before doing so.

❷ LED indicators

Indicates which cameras are connected.

❸ CAMERA IN connectors (BNC-type)

Connect to the DC IN.VS IN/VIDEO OUT connector of any SSC-series camera with multiplex transmission capability or the DXC-107A/107AP video camera module.

Note

When using a SSC-series camera, be careful not to connect the CAMERA IN connector on the camera adaptor with the MONITOR OUT connector on the camera; doing so may lead to damage or breakdown of the camera. Always be sure to connect to the VIDEO OUT connector on the camera.

❹ VIDEO OUT A and B connectors (BNC-type)

Connect to the video input connector of a video monitor to output the video signals input from the CAMERA IN connectors ❸.

❺ INT/LL switch

The LL (line lock) setting locks the line frequency, which is useful when synchronizing a number of cameras. To be able to make changes manually when there is no video synchronization signal, use the INT (internal) setting.

Note

The LL (line lock) setting is not compatible with the DXC-107A/107AP video camera module. When using this camera, set this switch to INT (internal).

(Continued)

Location and Function of Parts and Controls

❻ 75Ω (ON/OFF) switch

Controls the 75-ohm termination of the SYNC IN connector.

- When using the SYNC IN connector only, set this switch to ON.
- When using the SYNC IN and SYNC OUT connectors, set this switch to OFF.

Note

If you are using neither the SYNC IN nor SYNC OUT connector, set the switch to ON.

❼ SYNC IN connector (BNC-type)

Inputs an external synchronization signal (or video sync signal) for camera synchronization. The signal is input unaltered, regardless of the INT/LL switch setting.

❽ AC IN connector

Connects to a 120 V AC outlet (YS-W250 only) or a 220 – 240 V AC outlet (YS-W250P only).

❾ SYNC OUT connector (BNC-type)

Outputs the synchronization signal that is input to the SYNC IN connector ❼ without altering it.

❿ CABLE COMP (1/2/3) switches

Compensate for signal loss in the cable connection to the camera. Set the switch depending on the cable type and length according to the following table.

When using SSC-series cameras

Switch setting / Cable type	1	2	3
RG-59B/U (3C-2V)	max. 100 m (328 ft.)	max. 200 m (656 ft.)	max. 300 m (984 ft.)
RG-6A/U (5C-2V)	max. 160 m (524 ft.)	max. 330 m (1082 ft.)	max. 500 m (1640 ft.)
RG-11A/U (7C-2V)	max. 200 m (656 ft.)	max. 400 m (1312 ft.)	max. 600 m (1968 ft.)

When using the DXC-107A/107AP camera

Switch setting / Cable type	1	2
RG-59B/U (3C-2V)	max. 100 m (328 ft.)	———
RG-6A/U (5C-2V)	max. 160 m (524 ft.)	max. 300 m (984 ft.)

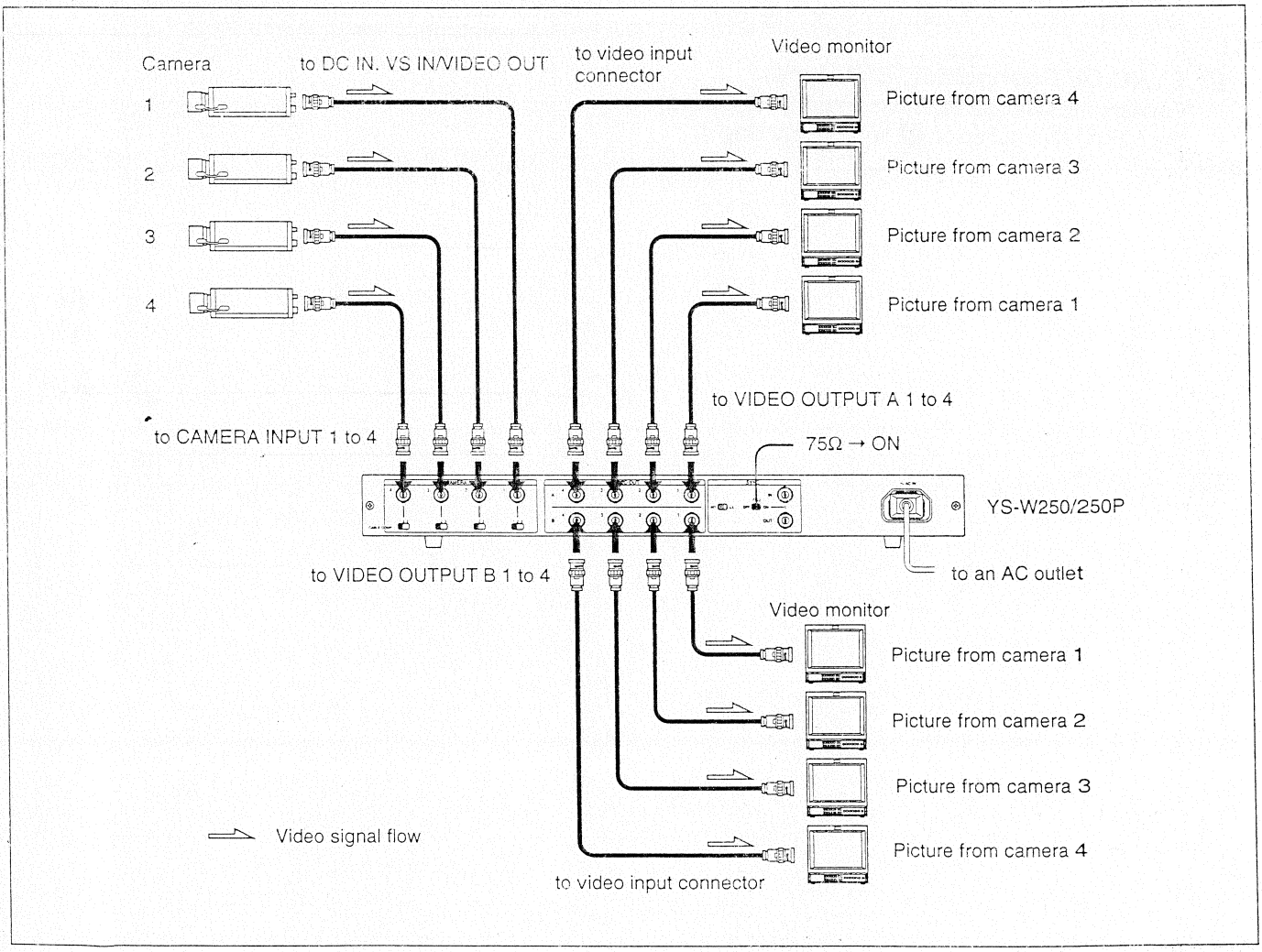
Connections

Notes on Connections

- This unit will only operate when connected to a Sony SSC-series camera with multiplex transmission capability or the DXC-107A/107AP video camera module. When making the connections, refer also to the operation manual for the connected video camera module.
- Turn off the power to all the equipment while making the system connections. If you connect a camera to this unit after switching the power on, the camera will not be supplied with power.
- The cables connecting this unit to the video cameras carry the power supply and synchronization signal in addition to the camera video output signal. It is therefore not possible to add a booster or other device between the unit and a camera.
- Always use a 75Ω coaxial cable of the length specified in the tables on page 6 when connecting a video camera to this unit; use of an incorrect cable can lead to camera malfunction. Also be sure to set the cable compensation switch correctly.

Using One YS-W250/250P

Using one YS-W250/250P you can set up a system of up to four cameras, with two monitors for each camera.

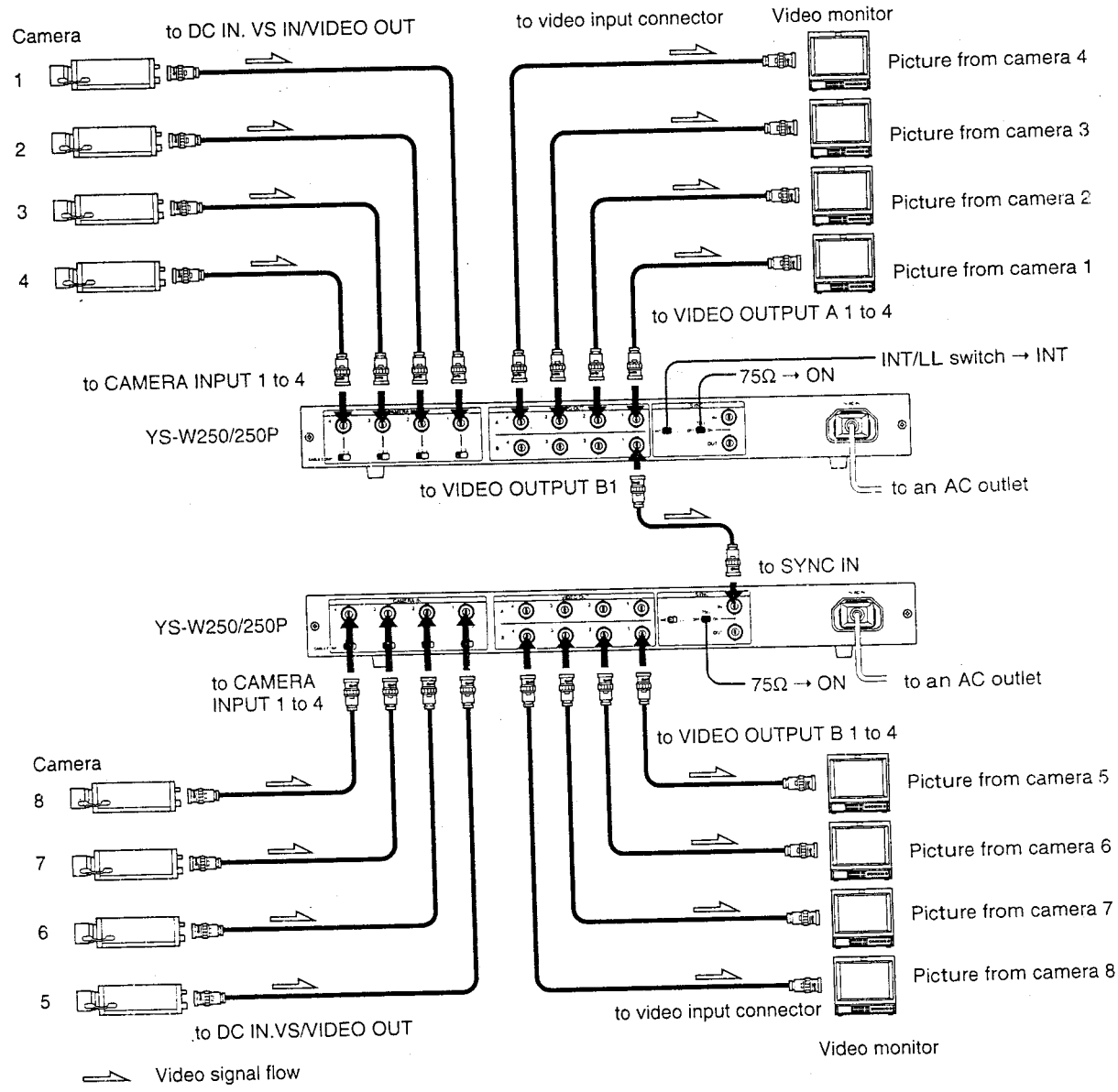


Connections

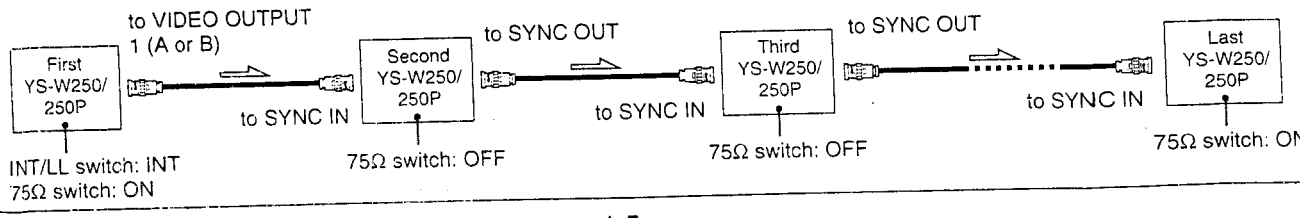
Using the INT Setting to Connect Two or More YS-W250/250Ps

You can connect up to fifty YS-W250/250Ps together. Since the unit provides SYNC IN and SYNC OUT connectors, all connected cameras can be synchronized with each other.

Example: When using two internally synchronized YS-W250/250Ps



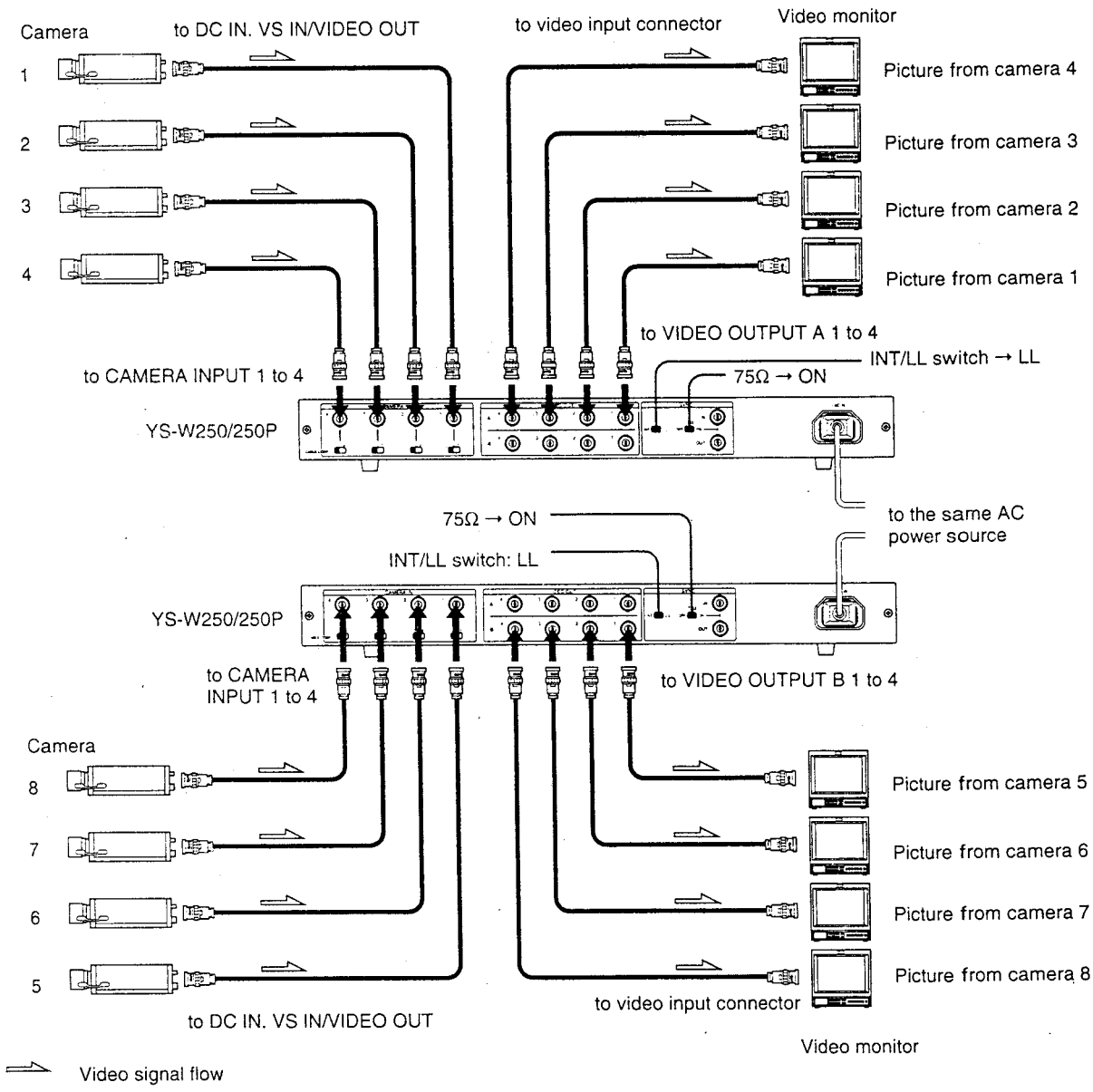
Connection of sync cables and settings of 75Ω switches for three or more YS-W250/250Ps



Using the LL Setting to Connect Two or More YS-W250/250Ps

Note that this setting is not compatible with the DXC-107A/107AP video camera module.

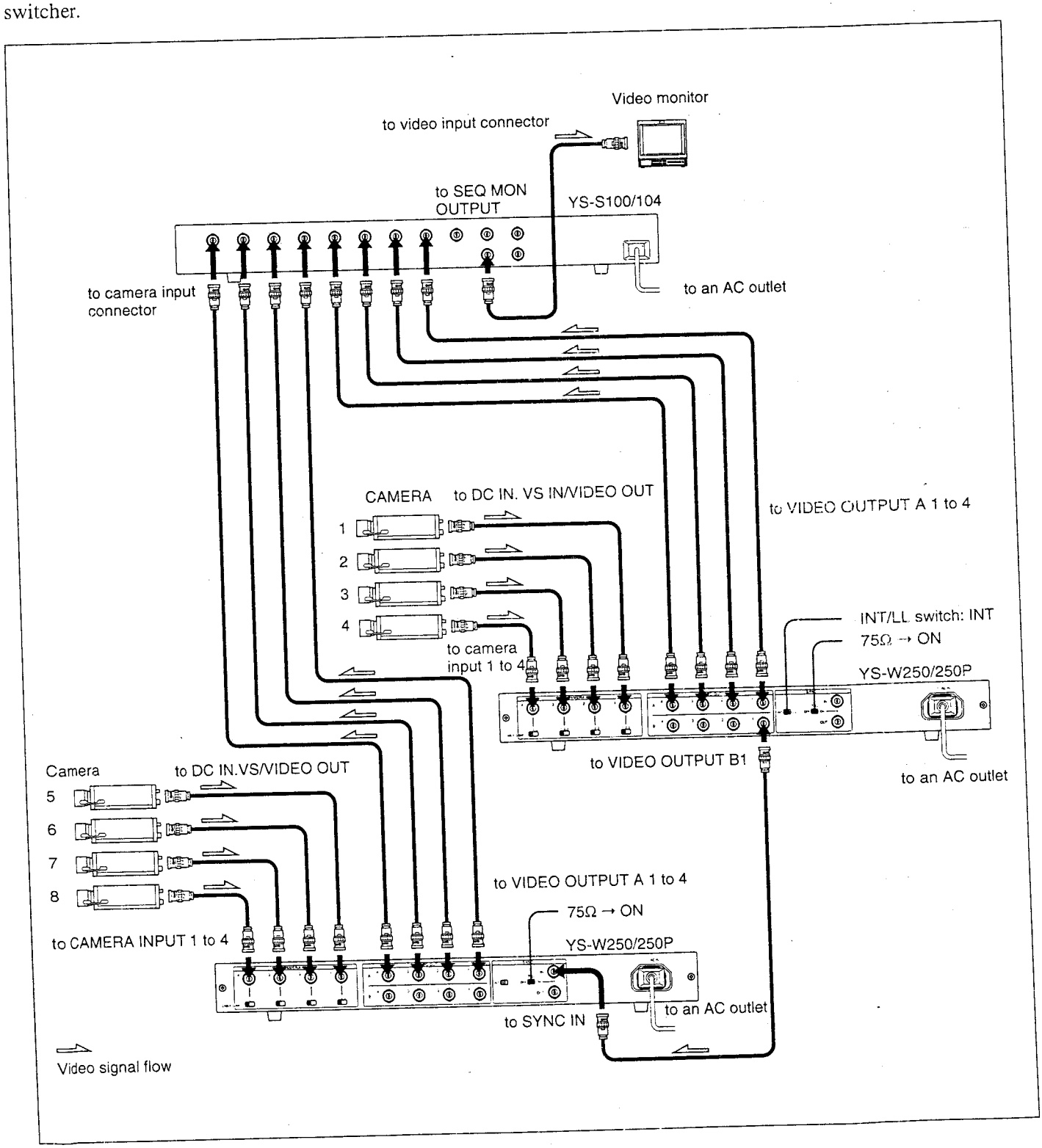
Example: When using two line locked YS-W250/250Ps



Connections

Connecting to a Sequential Switcher

By connecting the units to the YS-S100/104 sequential switcher (not supplied), you can sequentially view pictures from the cameras connected to the YS-W250/250Ps on a single video monitor connected to the sequential switcher.



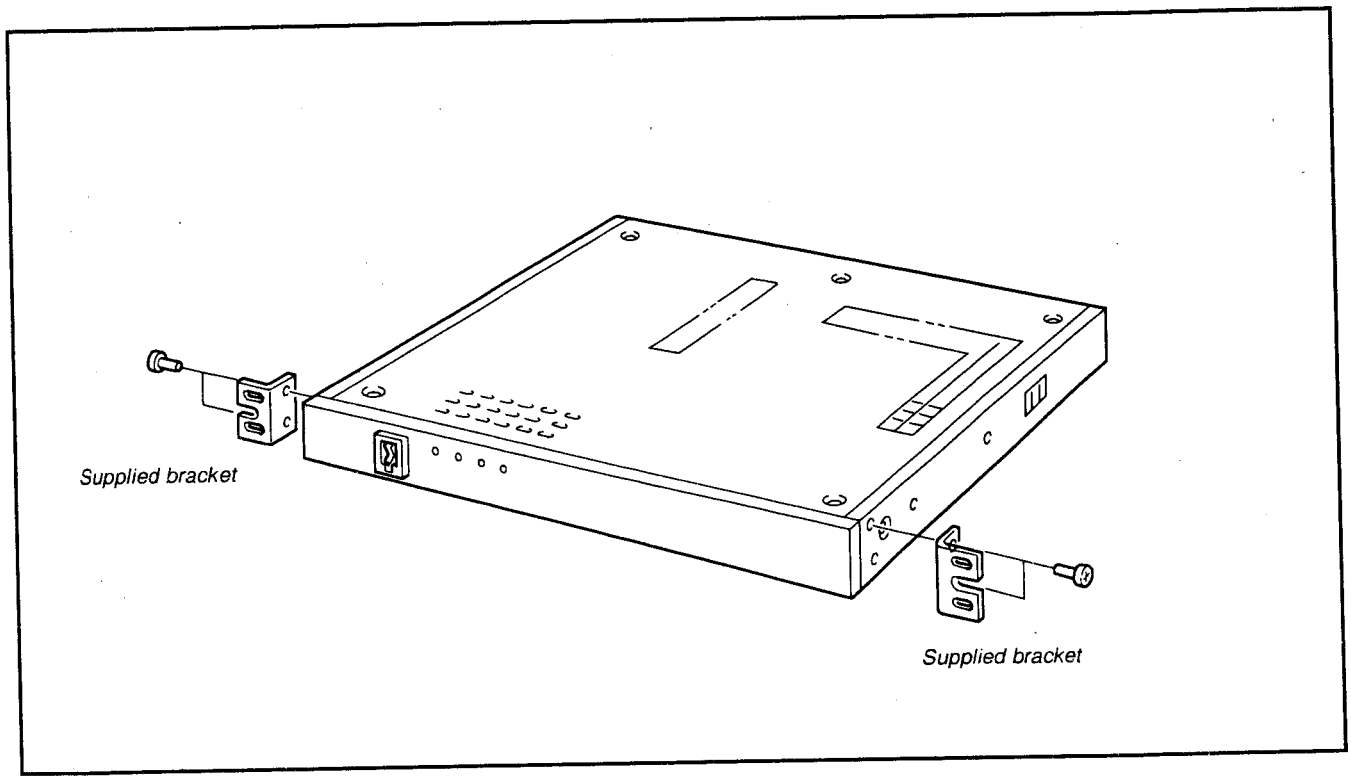
Specifications

Power supply	YS-W250 : 120 V AC, 60 Hz YS-W250P: 220 to 240 V AC, 50 Hz
Power consumption	48 W
Input connectors	CAMERA INPUT 1 to 4 (BNC) Connect only to a Sony SSC series camera with multiplex transmission capability or the DXC-107A/107AP video camera module. SYNC IN (BNC) 1 Composite sync signal: 4 Vp-p, 75 ohms terminated VS (video/sync): 1 Vp-p, 75 ohms terminated VBS (video/burst/sync): 1 Vp-p, 75 ohms terminated
Output connectors	VIDEO OUT 1 to 4 A, B (BNC) 8 Composite video signal: 1 Vp-p, 75 ohms terminated SYNC OUT (BNC) 1 For loop-through output of the signal input to SYNC IN
Operating temperature	−10°C to +50°C (14°F to 122°F)
Dimensions (w/h/d)	424 × 52 × 345 mm (16 3/4 × 2 1/8 × 13 5/8 inches)
Mass	Approx. 3.6 kg (7 lb 15 oz)
Accessories supplied	Operation Instructions (1) AC power cord (1) Rack mounting brackets and screws (EIA standard) (1 set)

Design and specifications are subject to change without notice.

Rack mounting

This unit can be mounted in a rack mounting bracket (for EIA standard racks).
Follow the directions in the illustration below.



SECTION 2
THEORY OF OPERATION

2-1. CN-1126 board

Mounted with input/output terminals and user control switches.

2-2. LED-227 board

LEDs corresponding to each channel (1 to 4) are arranged.

2-3. PS-407 Board

(1) to (3) are described about channel 1. Channel 2 to 4 are same as channel 1.

(1) Video signal processor

After the video signal input from camera is DC cut by C125, it is terminated by R111 (75Ω), and the sync signal of the camera controller is canceled by the differential amplifier (IC101).

The signal is then clamped by Q101, amplified by IC102, passed through the buffer, and output to VIDEO OUT A and B terminals.

(2) Cable compensation circuit

The gain and frequency characteristics of IC102 are switched in three levels by Q102, Q103, and Q104 according to the cable length.

(3) 28.5V REG and protection circuit

A 28.5V output which has been stabilized at high impedance by Q105 is supplied to the camera together with the sync signal from the 31V switching power supply.

The current flowing to the camera is voltage-converted and detected by Q106. When excessive-load or no-load, the flip-flop (Q109, Q110)) is controlled by the comparator IC103, Q113 is cut-off by Q116, and the power supplied to the camera is stopped.

The LED will be dimly lit by the flip-flop at this time.

The flip-flop during POWER ON is regulated by C127 and Q111.

The operating points in excessive load and no load are as follows.

Excessive load: Above approx. 330 mA

No load: Below approx. 50mA

(4) Synchronization block

1) INT

The 14MHz basic clock input to the timing generator IC515 becomes the 14MHz crystal OSC output during INT(INT/LL=INT) after the IC514 output becomes "L", Q504 turns ON, and 5V is supplied to IC512.

2) External synchronization (Regardless of the INT/LL SW, this mode has the priority)

The external sync signal passes through the buffer Q501 and is input to IC506 to output the sync signal and HD.

The VD signal is input to the VR pin of IC515 via the low pass filter. Because HD is "H", Q504 turns OFF regardless of the INT/LL SW, and 5V is not supplied to IC512. The 14 MHz crystal OSC is not oscillated.

On the other hand, Pin 2 of IC503 becomes "H" the 14MHz VCO is oscillated and input to the basic clock of IC515.

The HD signal is used as the EXT signal of IC515 to manage the sync mode.

The HD signal is further sent to the analog switch IC508 while the HD output of IC515 is input to IC 508 via the Schmidt trigger IC511. When the EXT signal is "H", these two HD signals become the IC508 output and are phase-compared at IC507.

The result of the phase comparison output becomes the VCO control voltage integrated to the DC value by the low pass filter.

3) When LL (INT/LL SW=LL)

The 14MHz basic clock input to IC515 is the same VCO as the external sync.

The V PULSE for LL is sent to IC508 via the monostable multi vibrator IC501. On the other hand, VD output of IC515 is input to IC508 via IC510. When the EXT signal is "L", these two signals become the output of IC508, and are phase-compared by IC507. The result of the phase comparison output becomes the VCO control voltage integrated to the DC value by the low pass filter.

4) VS output

The VS signal is sent to the CN-1126 board by resistance-dividing the IC515 output.

2-4. AC-174 Board

This power supply is a flyback type switching regulator with variable oscillation frequency and conduction time.
It creates +30.5V, +9.3V. (+8V and +5V are created from +9.3V by a 3-pin regulator.)
This power supply also outputs pulses for line-lock from commercial power supplies.

(1) Line-filter
To prevent power supply disturbances, a T model with 2-layer common mode choke coil is used. The choke coil resistance serves also as the rush current limiting resistance.

(2) Line-lock pulse generator
This circuit is composed of R707, C722, D706, and PH701, and outputs one pulse in one period of the commercial power supply.

(3) Primary side rectifying circuit
The C709, C710, C711, and C712 parallel-inserted in D702 (rectifying bridge diode) serves as a capacitor for preventing power supply disturbances. It controls diode noises composed of comparatively low frequency components.
The rectifying circuit performs the following two operations using D702, JP703, and C717 and C718.

When JP703 is used (YS-W250)
In this case, D702, C717, and C718 performs voltage doubler rectifier operations. When the Live side is set to High, the current becomes a half-wave rectification flowing in the order of D702, C718, JP703, and Neutral. When the Neutral side is set to High, the current becomes a half-wave rectification flowing in the order of JP703, C717, D702, and Live. As the former and latter are deviated by half a wave, the voltage waveform observed at the — terminal of C717 and + terminal of C718 appears as a voltage doubler full-wave rectification.

When JP703 is not used (YS-W250P)
In this case, C717 and C718 are considered equivalently as one capacitor connected in series. Full-wave rectification operations are performed at D702, C717, and C718. R708, R709, R710, and R711 incorporated parallel to C717 and C718 serve as discharge resistors.

(4) High voltage switches
By turning ON-OFF the voltage imposed on windings 1 to 3 (main windings at primary side) of the transformer T701 using semiconductor switches Q703 and Q704 (between drain and source), the high voltage pulse amplitude is obtained.
D707, C723, R718, and R719 compose the snubber circuit. The snubber circuit serves to prevent breaking by high voltage noises of Q703 and Q704. The moment Q703 and Q704 are turned OFF, high voltage noises are generated by the leaked inductance of the transformer, this is superimposed with the high voltage pulse and output. As Q703 and Q704 break when this voltage exceeds their dielectric strength, C723, R718, and R719 work to prevent the voltage from exceeding a certain voltage.
C721, D704, R716, and R717 compose the dumping circuit. The dumping circuit controls the free oscillation of the main windings of the transformer. When Q703, Q704, D705, D801, D802, and D803 all turn OFF, free oscillation is generated according to the primary side main winding of the transformer and the parasitic capacity that is parallel to it.
In this unit, this oscillation is controlled to ensure safe operations.

(5) IC701 Operations
IC701 is an IC exclusive for the switching power supply incorporating a +5V power supply, oscillator, control circuit, output circuit, shutdown circuit, and start up circuit.

The +5V power supply is a +B power supply used internally.
The oscillator determines the frequency of the ON pulse of the semiconductor switch. The external R703, C703, C704, and C705 mainly determine the frequency. The frequency also changes according to the changes in the load. When the load is light, large amounts of current flow to the LED of PH703, as well to the transformer to reduce the voltage of pin 1 of IC701. As a result, the voltage of R703 connected to D701 also decreases for the same amount reduced. When the charged voltage of the capacitor C703, C704, and C705 of the oscillator drops, time is consumed for charging the required voltage, and the frequency consequently drops. On the other hand, when the load is high, the reverse operation is performed and the oscillation frequency increases.

The control circuit (Pin 5 input) regulates the semiconductor switch ON pulse time during maximum load from exceeding the dead-time. For the normal load, the ON pulse time is controlled so that the designated current flows at all times by the current feedback resistor R720. A very small change in load is controlled according to the length of this ON pulse time.

Note: The dead time indicates the charge time of the oscillation waveform of Pin 7 of the IC. The oscillation frequency is determined by R703 together with C703, C704, and C705. There is only one combination of R and C. This power supply selects R and C so that the dead-time of charge and discharge becomes 1:1.

The output circuit (Pin 10) serves as the output circuit of the ON pulse for the semiconductor switch.

The shutdown circuit serves also as a +5V power supply. When this voltage is made 0V forcibly, this IC operates so that the ON pulse stops when it becomes OFF. To make the voltage 0V during abnormal operations, two parallel transformers are used.

The start up circuit serves as a Schmitt trigger input which ensures that the unit operates at a voltage above the prescribed voltage when the power switch is turned ON. The power at start up is supplied from R704, R705, R706, and C715. As the unit operates using the energy stored by this CR circuit until normal operations are performed, C715 must have a certain storage of energy or no energy will be supplied until the normal operations. In normal operations, the energy is supplied from power supplies rectified by windings 5 and 6 (Auxiliary windings) of the transformer.

Q705 serves as the transformer to limit the ON pulse time when power is supplied. By setting the voltage of Pin 1 of this IC higher than normal and lower than the internal voltage (+5V), the ON pulse time at start up is made small so that no overvoltage can be supplied to Q703 and Q704. This voltage is limited to the total voltage of a voltage determined by R726 and R727 plus Q705 V_{BE}.
D703 serves to prevent the start up current from flowing in the reverse direction.

(6) +30.5V output
A +30.5 V output is obtained by rectifying windings 11 to 13 of the transformer. D802 and D803 are rectifying diodes which are used together to ensure sufficient current. The smoothing circuit used is the general π type. To save the power, D804, Q802, and Q803 which are composed making use of the fact that the voltage rises when there is no load, operate so that R813 and R814 turn ON only when there is no load.

(7) +5V and +8V outputs
The +9.3V output is obtained by rectifying windings 7 and 8 of the transformer, and sent to the 3-pin regulator of the +5V and +8V outputs.

(8) Secondary side voltage change detection block
To improve the accuracy of the output voltage as much as possible, the output voltage of the secondary side is observed and the difference with the reference voltage is fed back to this IC. The accuracy of the voltage is determined by the IC801 shunt regulator. Both the +30.5V and +9.3V voltages are monitored, and a current of 1 mA is fed to R804 and RV801 from both voltages.

(9) Protection circuit
The +30.5V short-circuit protection circuit operates so that when a +30.5V output drops below the Q801 emitter voltage, Q801 turns ON and the PH702 LED short-circuits. As a result, Q701 and Q702 of the primary side turn ON, IC701 stops oscillation and turn OFF.

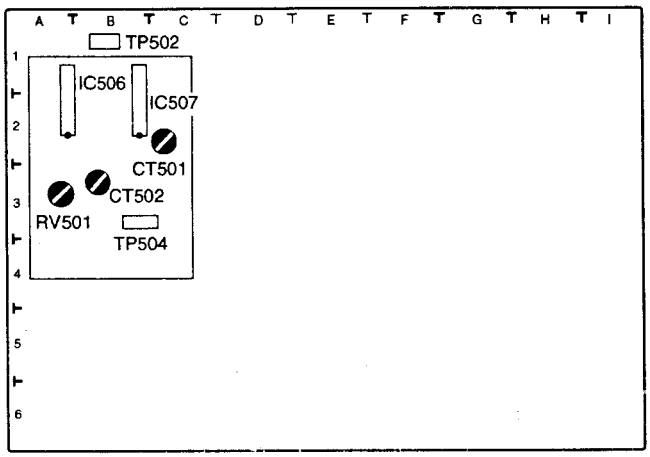
To protect the +9.3V output from overvoltage, when the inverted input potential of IC804 (2/2) rises above the non-inverted input (reference potential of D805), the Q801 base voltage is lowered and Q801 is turned ON. After this, the same operations as the +30.5 short-circuit protection circuit are performed.

SECTION 3
ELECTRICAL ADJUSTMENT

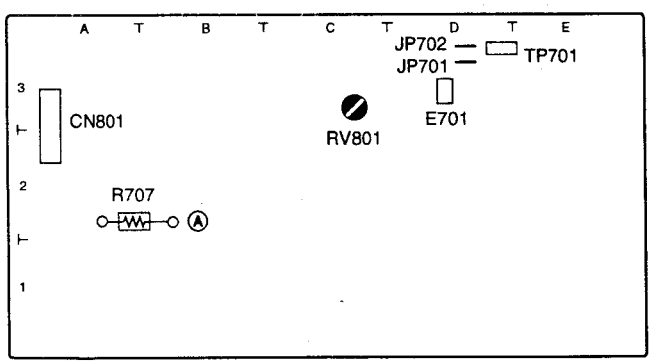
Required Equipment

- Dual Trace Oscilloscope
- Frequency Counter
- Digital Voltmeter
- Video Signal Generator
- Sony SSC-series video camera (multiplex transmission capability)
- Dummy Load CP-069 (Sony p/n J-6430-690-A)

Adjustment Location



PS-407 Board –A SIDE–



AC-174 Board –A SIDE–

3-1. Oscillation Frequency Adjustment

Equipment : Frequency counter
Test point : TP701, E701(GND)/AC-174 board
Adjustment point : JP701, JP702/AC-174 board
Specification : f=35.0kHz to 45.0kHz
Procedure : 1) Remove CN801/AC-174 board harness, and connect the dummy load (CP-069) harness.
2) Cut or connect JP701 and JP702 to adjust the frequency.

JP701	JP702	frequency (f)
connect	connect	lower
connect	cut	about 3kHz higher
cut	connect	about 8kHz higher
cut	cut	about 12kHz higher

(Note) When cut or connect them, set POWER OFF.

3-2. 30.5V Output Voltage Adjustment.

Equipment : Digital voltmeter
Test point : A terminal, GND terminal (GND)/ dummy load
Adjustment point : RV801/AC-174 board
Specification : E=30.6 $^{+0.1}_{-0}$Vdc
Preparation : Remove CN801/AC-174 board harness, and connect the dummy load harness.

3-3. Clock Frequency Adjustment

Equipment : Frequency counter
Test point : TP504/PS-407 board, (GND: chassis)
Adjustment point: CT502/PS-407 board
Specification : 14.31818 MHz ±50Hz (YS-W250)
14.1875 MHz ±50Hz (YS-W250P)
Preparation:
1) Connect a camera to the CAMERA IN.
2) Set the INT/LL switch to INT.

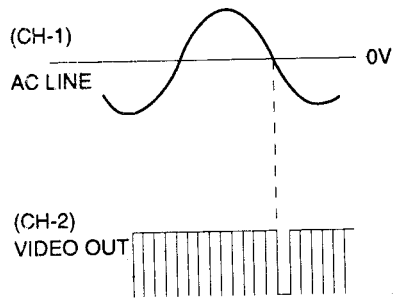
3-4. External Sync Adjustment

Equipment : Digital voltmeter
Test point : TP502/PS-407 board
Adjustment point: CT501/PS-407 board
Specification : 2.7 ±0.1 Vdc
Preparation:
Input the external sync signal to the SYNC IN.

3-5. LL mode Phase Adjustment

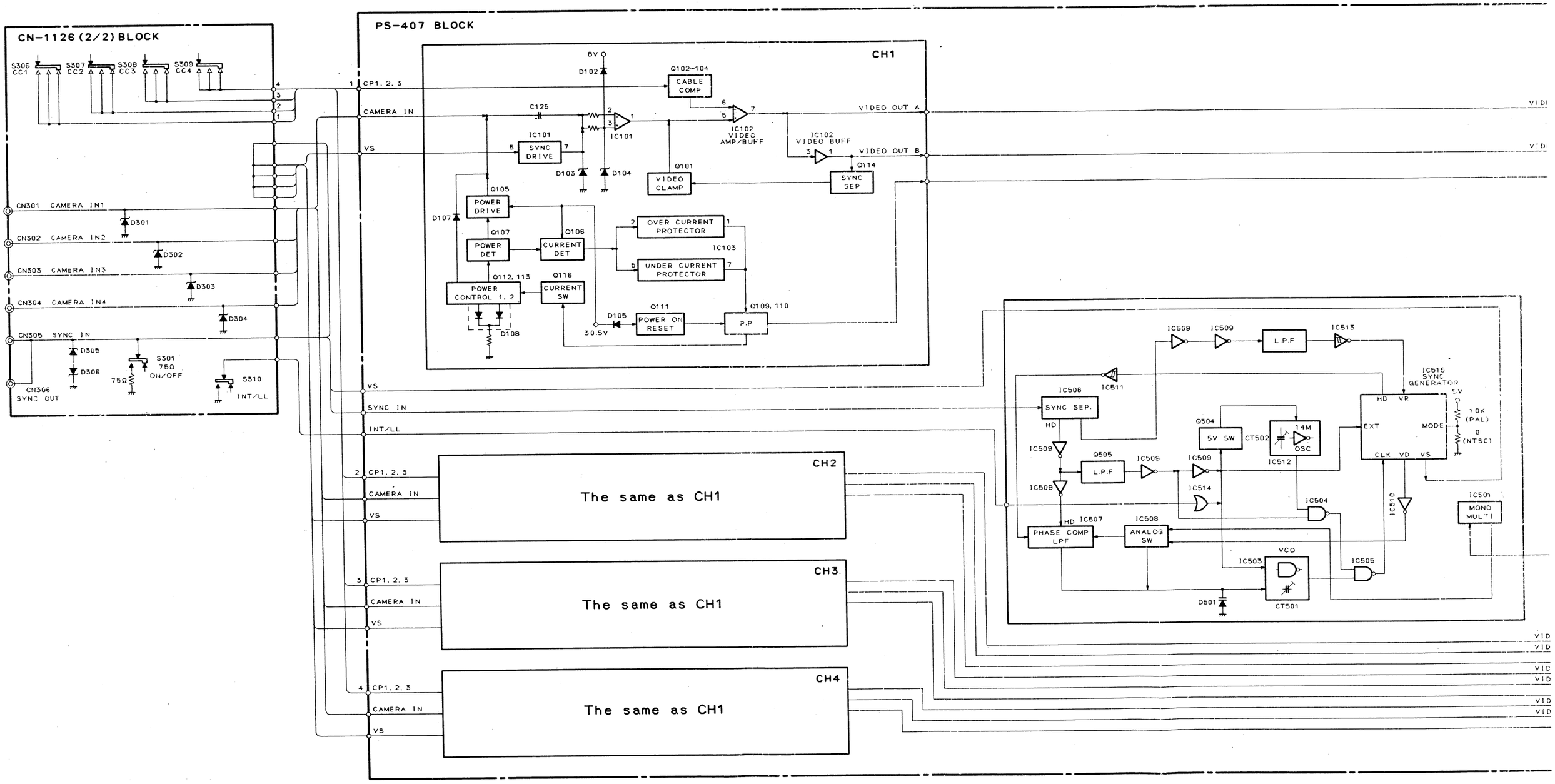
Equipment : Oscilloscope
Test point : R707/AC-174 board "Ⓐ" marking side (CH-1)
Connect nothing to the GND of the CH-1 probe.
VIDEO OUT (CH-2)
Adjustment point: RV501/PS-407 board
Procedure:

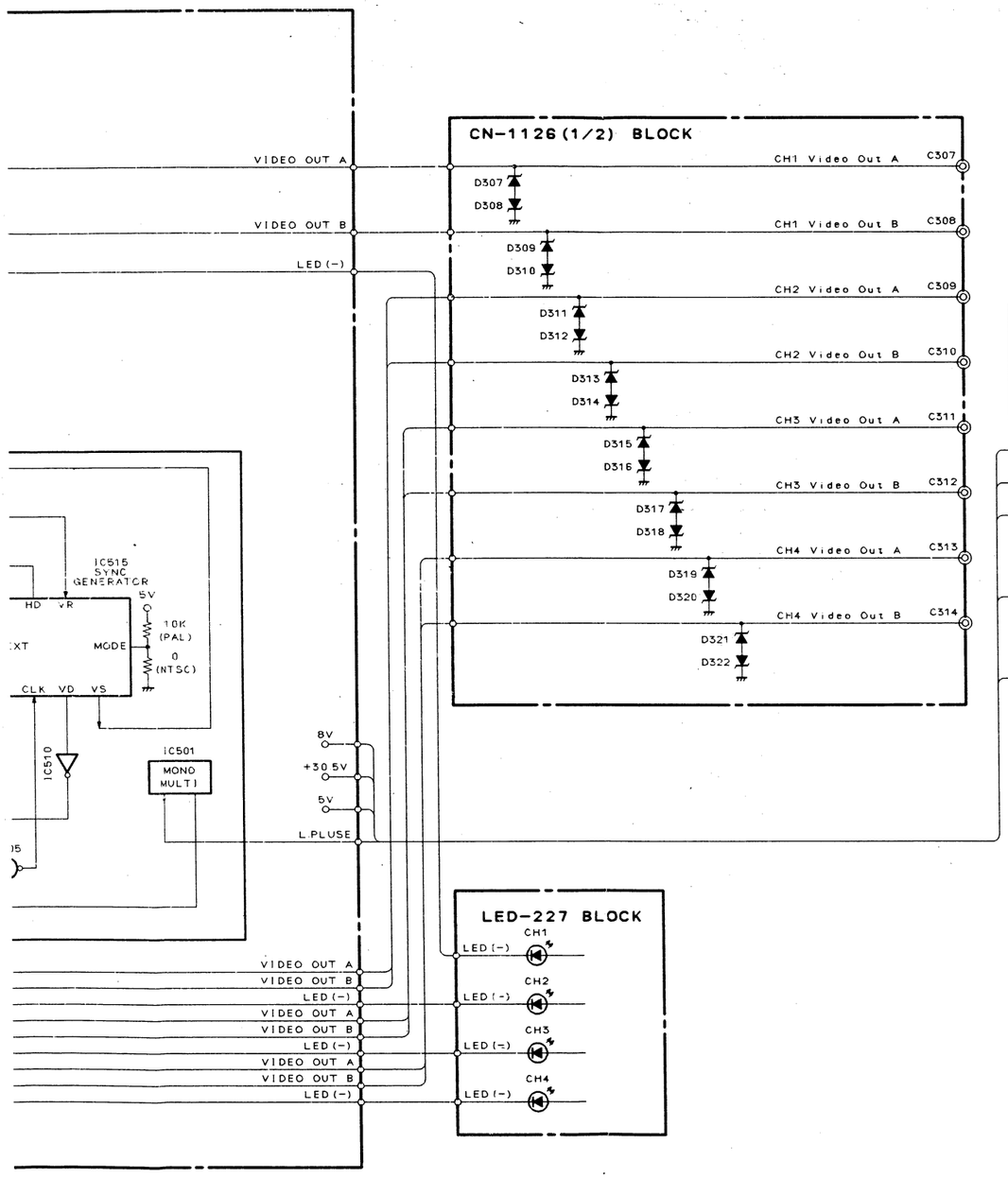
1) Set the INT/LL switch to LL
2) Adjust RV501 so that the CH-2 pulse is positioned at the cross point of the CH-1 waveform as follows.

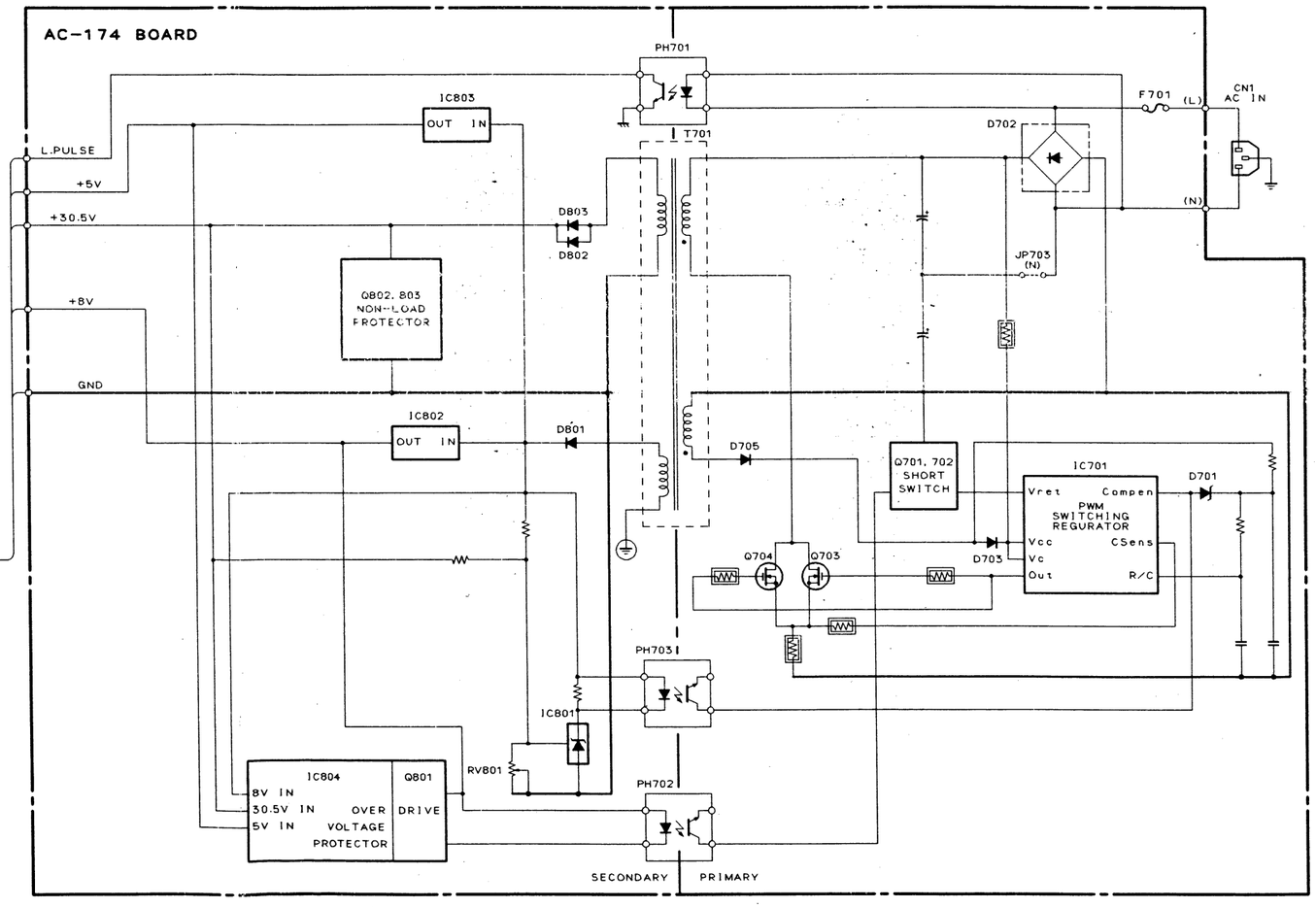


SECTION 4
DIAGRAMS

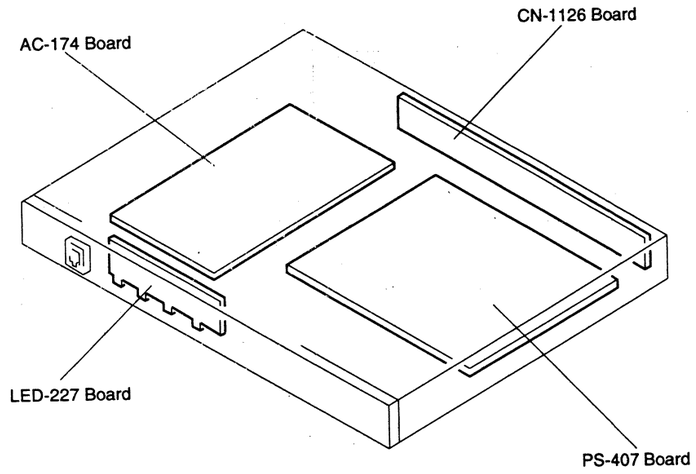
4-1. BLOCK DIAGRAM




CN-1126 (1/2) BLOCK
VIDEO OUT A
VIDEO OUT B
LED (-)
CH1 Video Out A
CH1 Video Out B
CH2 Video Out A
CH2 Video Out B
CH3 Video Out A
CH3 Video Out B
CH4 Video Out A
CH4 Video Out B
C307
C308
C309
C310
C311
C312
C313
C314
D307
D308
D309
D310
D311
D312
D313
D314
D315
D316
D317
D318
D319
D320
D321
D322
IC515
SYNC
GENERATOR
HD VD
5V
10K
(PAL)
0
(NTSC)
MODE
CLK VD VS
IC510
IC501
MONO
MULTI
8V
+30.5V
5V
L.PLUSE
LED-227 BLOCK
CH1
CH2
CH3
CH4
LED (-)
VIDEO OUT A
VIDEO OUT B
LED (-)

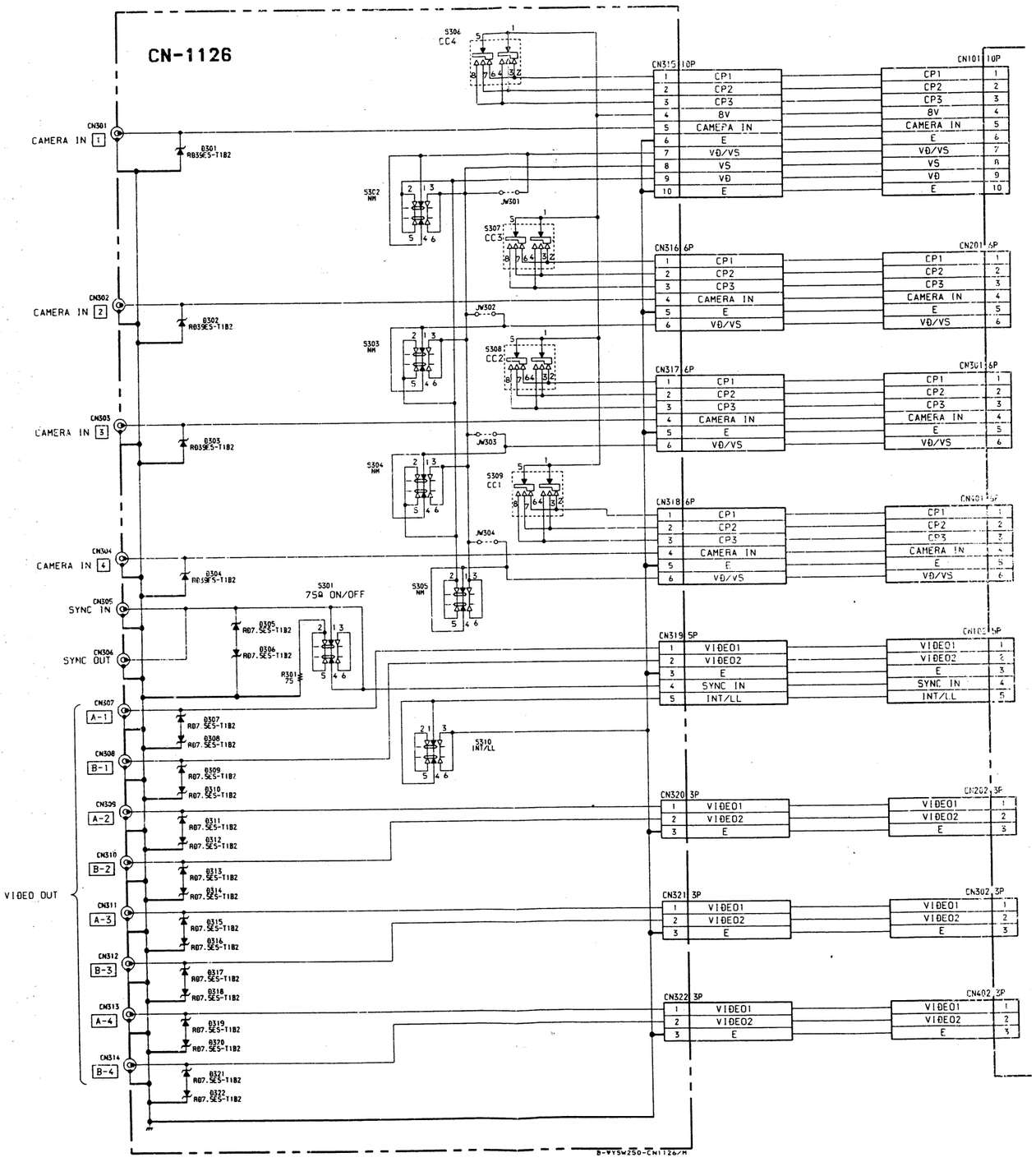

AC-174 BOARD
PH701
IC803
OUT IN
F701
(L)
CN1
AC IN
(N)
D702
T701
L.PULSE
+5V
+30.5V
+8V
GND
D803
D802
Q802, 803
NON-LOAD
PROTECTOR
JP703
(N)
IC802
OUT IN
D801
D705
Q701, 702
SHORT
SWITCH
IC701
Vret
Compen
PWM
SWITCHING
REGURATOR
Vcc
CSens
Vc
Out
R/C
D701
D703
Q704
Q703
PH703
IC801
IC804
8V IN
30.5V IN
5V IN
OVER
VOLTAGE
PROTECTOR
Q801
DRIVE
RV801
PH702
SECONDARY
PRIMARY

4-2. BOARD LOCATION



4-3. PRINTED CIRCUIT BOARDS AND SCHEMATIC DIAGRAMS
CN-1126, LED-227, AC-174, FRAME WIRING

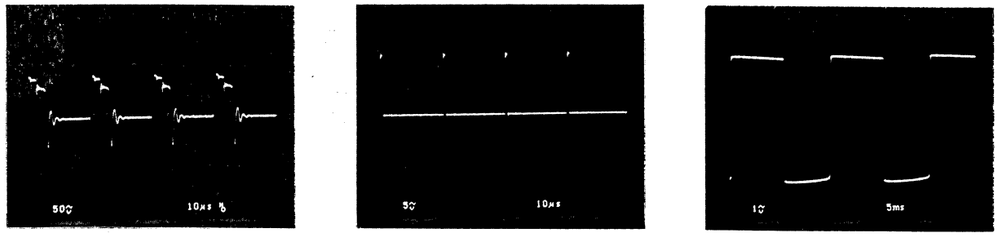
· Voltage and waveforms are dc with no-signal conditions.



ıd waveforms are dc with respect to ground under conditions.

AC-174 BOARD

① ② ③



NOTE
1. NM:NO MOUNT
2. (N) :YS-W250 only
3. (P) :YS-W250P only

PS-407

LED-227

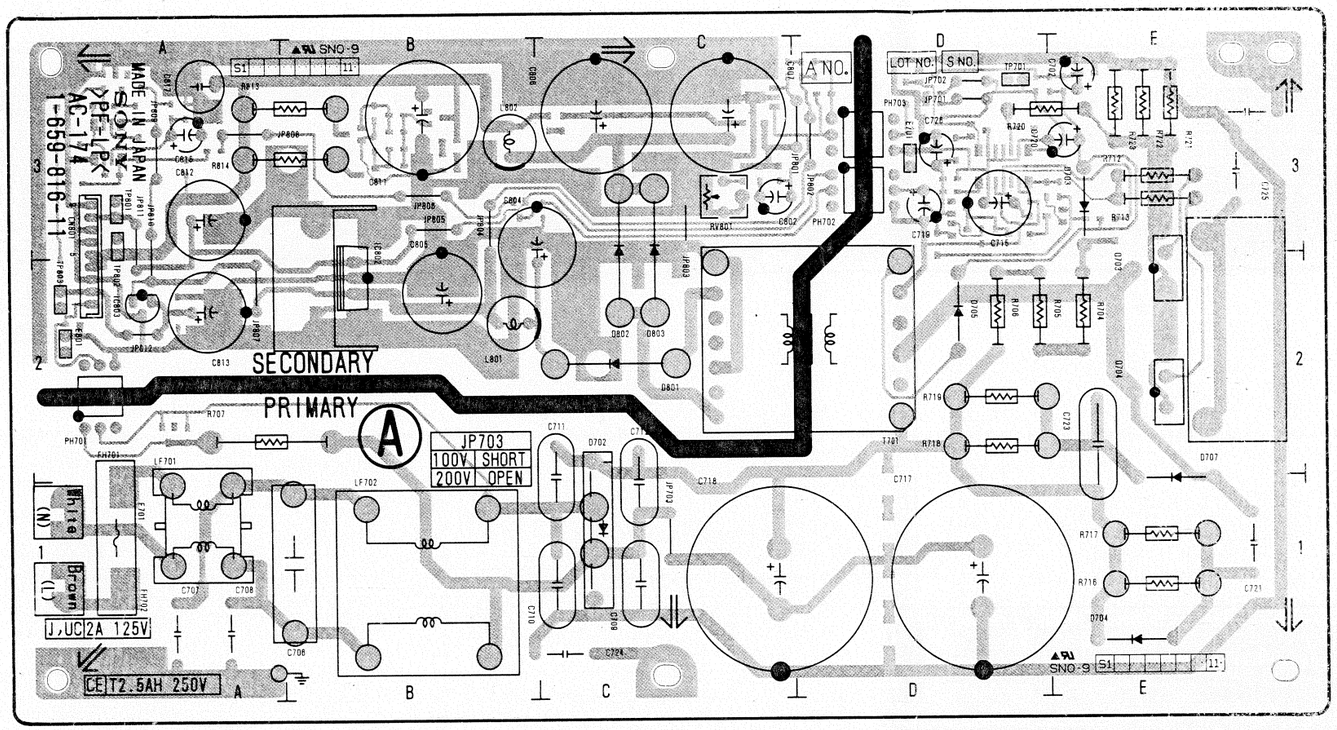
AC-174

AC-174 BOARD

AC-174 BOARD
CN801 A-2
D702 C-2
D703 E-3
D704 E-4
D705 D-2

D707 E-2
D801 C-2
D802 C-2
D803 C-2

IC802 B-3
IC803 A-2

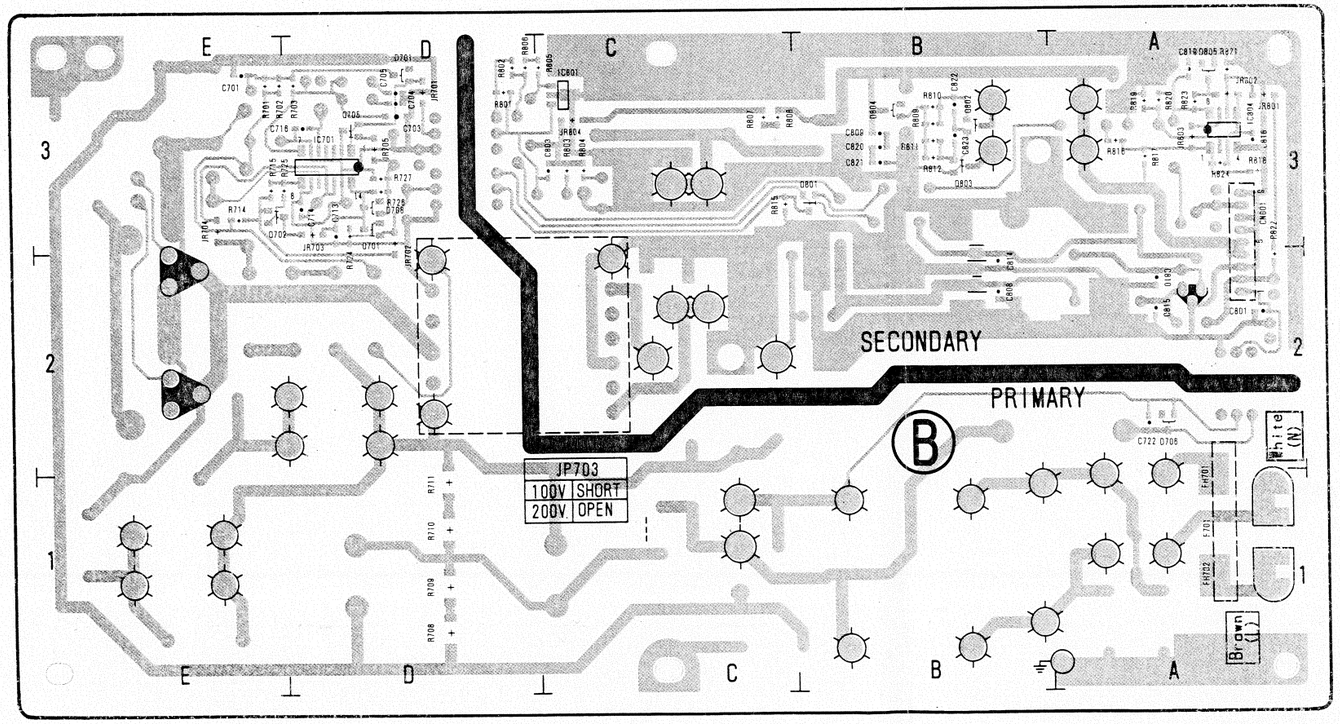


AC-174 BOARD – A SIDE –
1-659-816-11

AC-174 BOARD
D701 D-3
D706 A-2
D708 D-3
D804 B-3
D805 A-3

IC701 D-3
IC801 C-3
IC804 A-3

Q701 D-3
Q702 E-3
Q801 B-3
Q802 B-3
Q803 B-3

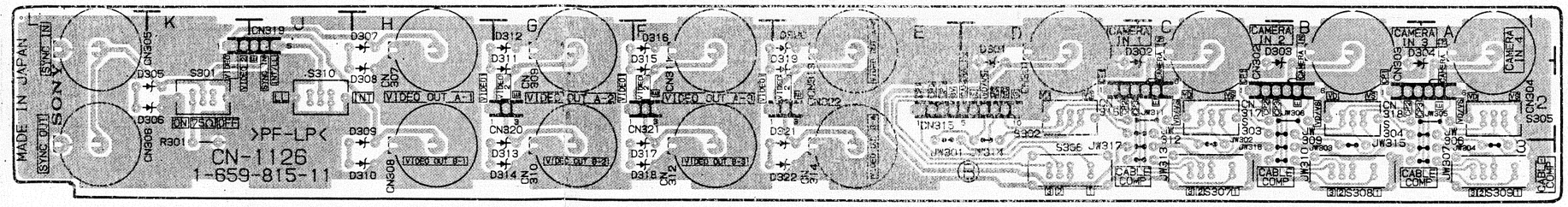


AC-174 BOARD – B SIDE –
1-659-816-11

CN-1126 BOARD

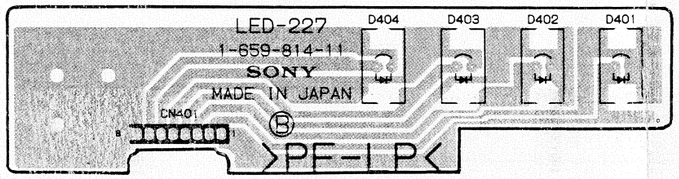
CN301	D-2	D301	D-1
CN302	C-2	D302	C-1
CN303	B-2	D303	C-1
CN304	A-2	D304	B-1
CN305	K-1	D305	K-2
CN306	K-3	D306	K-2
CN307	H-2	D307	H-1
CN308	H-3	D308	H-2
CN309	G-2	D309	H-2
CN310	G-3	D310	H-3
CN311	F-2	D311	G-2
CN312	F-3	D312	G-1
CN313	E-2	D313	G-3
CN314	E-3	D314	G-3
CN315	E-2	D315	F-2
CN316	D-2	D316	F-1
CN317	C-2	D317	F-3
CN318	B-2	D318	F-3
CN320	G-2	D319	E-2
CN321	F-2	D320	E-1
CN322	E-2	D321	E-3
		D322	E-3

CN-1126 BOARD

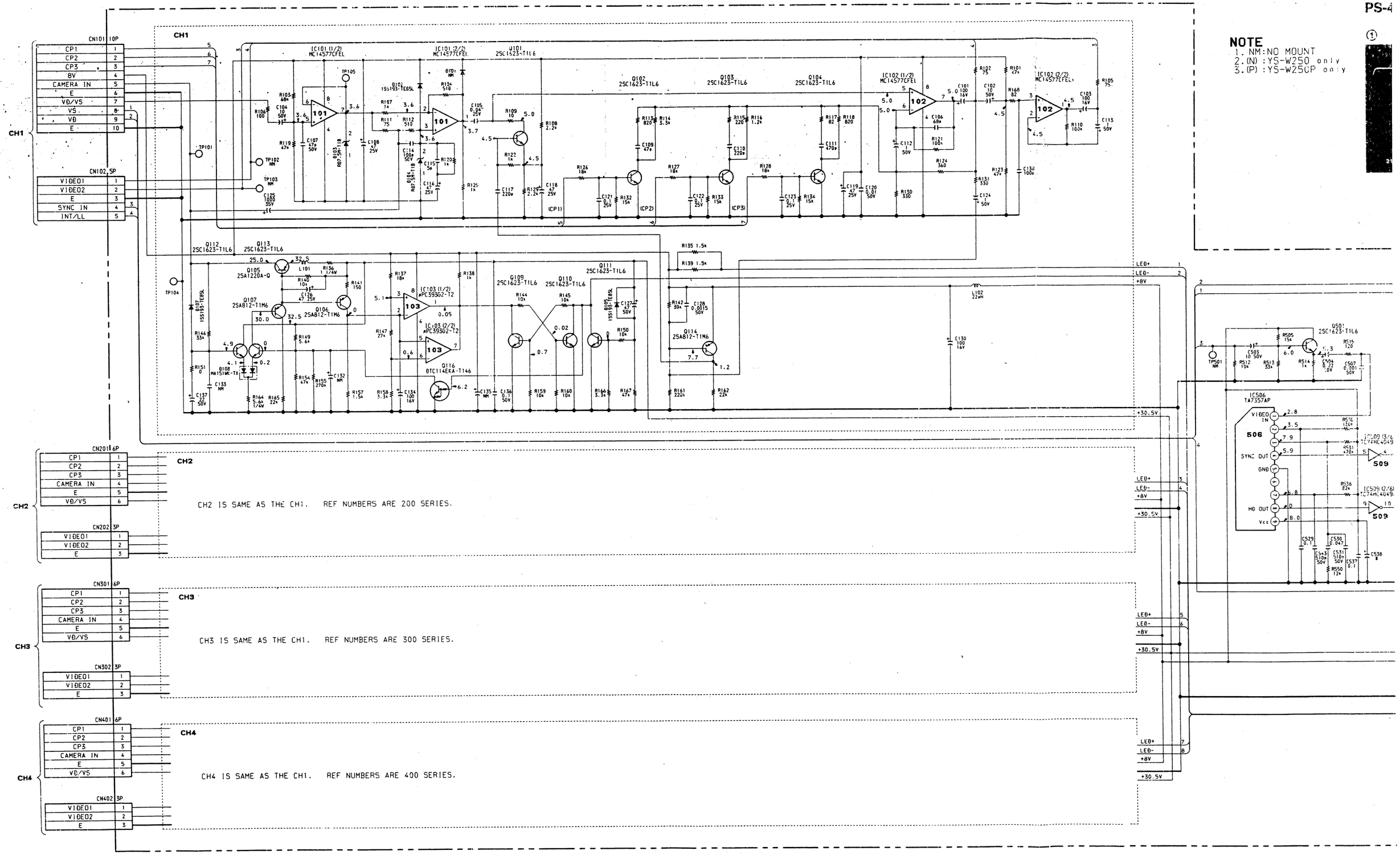


CN-1126 BOARD – B SIDE –
1-659-815-11

LED-227 BOARD

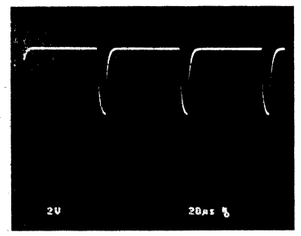


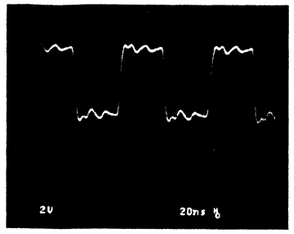
LED-227 BOARD – B SIDE –
1-659-814-11

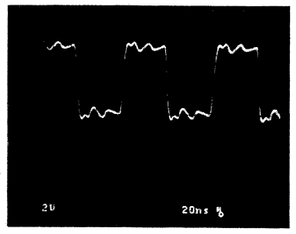

CN101 10P
CP1
CP2
CP3
8V
CAMERA IN
E
VD/VS
VS
VD
E
CN102 5P
VIDEO1
VIDEO2
E
SYNC IN
INT/LL
CH1
IC101 (1/2) MC14577CFEL
IC101 (2/2) MC14577CFEL
Q101 2SC1623-T1L6
Q102 2SC1623-T1L6
Q103 2SC1623-T1L6
Q104 2SC1623-T1L6
IC102 (1/2) MC14577CFEL
IC102 (2/2) MC14577CFEL
Q112 2SC1623-T1L6
Q113 2SC1623-T1L6
Q105 2SA1220A-Q
Q107 2SA812-T1M6
Q106 2SA812-T1M6
IC103 (1/2) μPC393G2-T2
IC103 (2/2) μPC393G2-T2
Q116 DTC114EKA-T146
Q109 2SC1623-T1L6
Q110 2SC1623-T1L6
Q111 2SC1623-T1L6
Q114 2SA812-T1M6
L101
L102 22μH
TP101
TP102
TP103
TP104
TP105
LED+
LED-
+8V
+30.5V
CN201 6P
CH2
CN202 3P
CH2 IS SAME AS THE CH1. REF NUMBERS ARE 200 SERIES.
CN301 6P
CH3
CN302 3P
CH3 IS SAME AS THE CH1. REF NUMBERS ARE 300 SERIES.
CN401 6P
CH4
CN402 3P
CH4 IS SAME AS THE CH1. REF NUMBERS ARE 400 SERIES.
Q501 2SC1623-T1L6
IC506 TA7357AP
506
IC509 (2/6) TC74HC4049
509
NOTE
1. NM:NO MOUNT
2. (N) :YS-W250 only
3. (P) :YS-W250P only

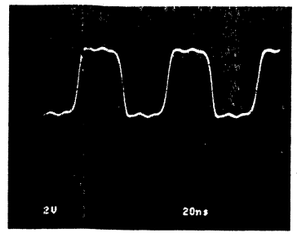
PS-407 BOARD

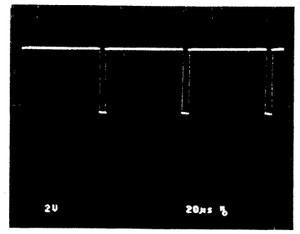
NOTE
1. NM:NO MOUNT
2. (N) :YS-W250 only
3. (P) :YS-W250P only

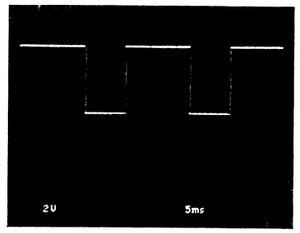
① 

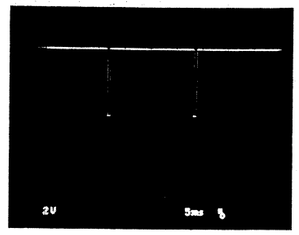
② (LL mode) 

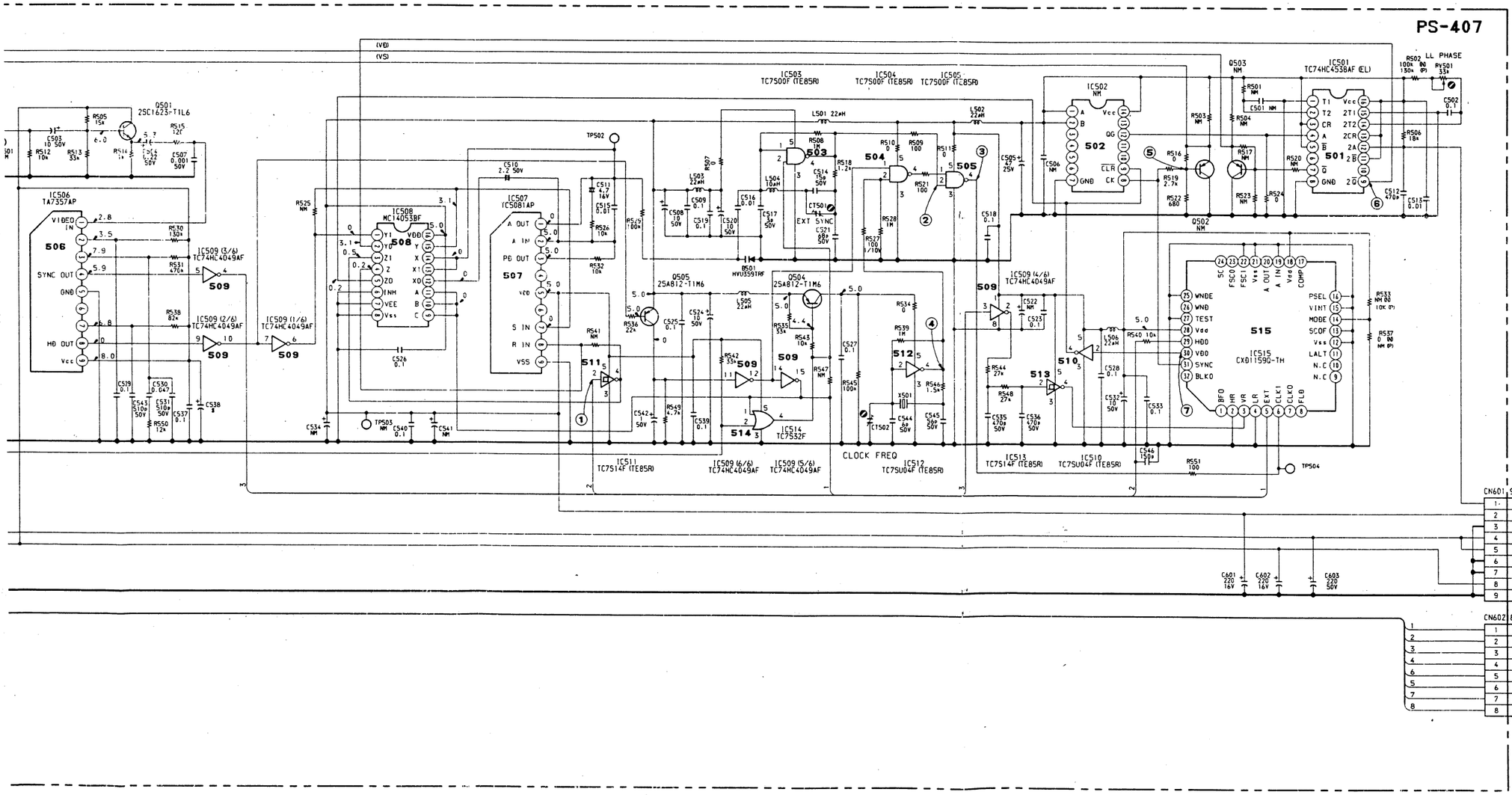
③ (INT mode) 

④ 

⑤ 

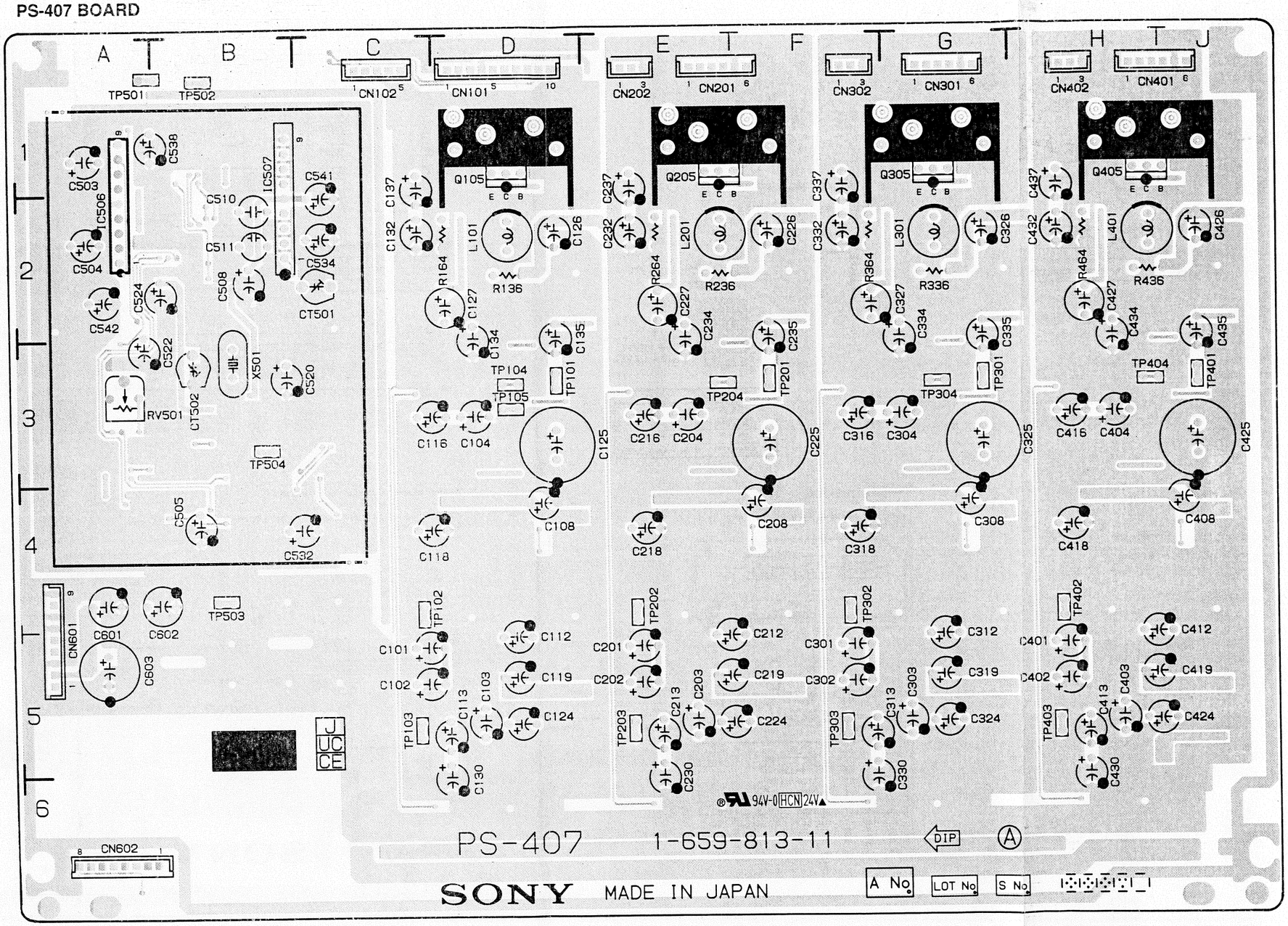
⑥ 

⑦ 



PS-407 BOARD

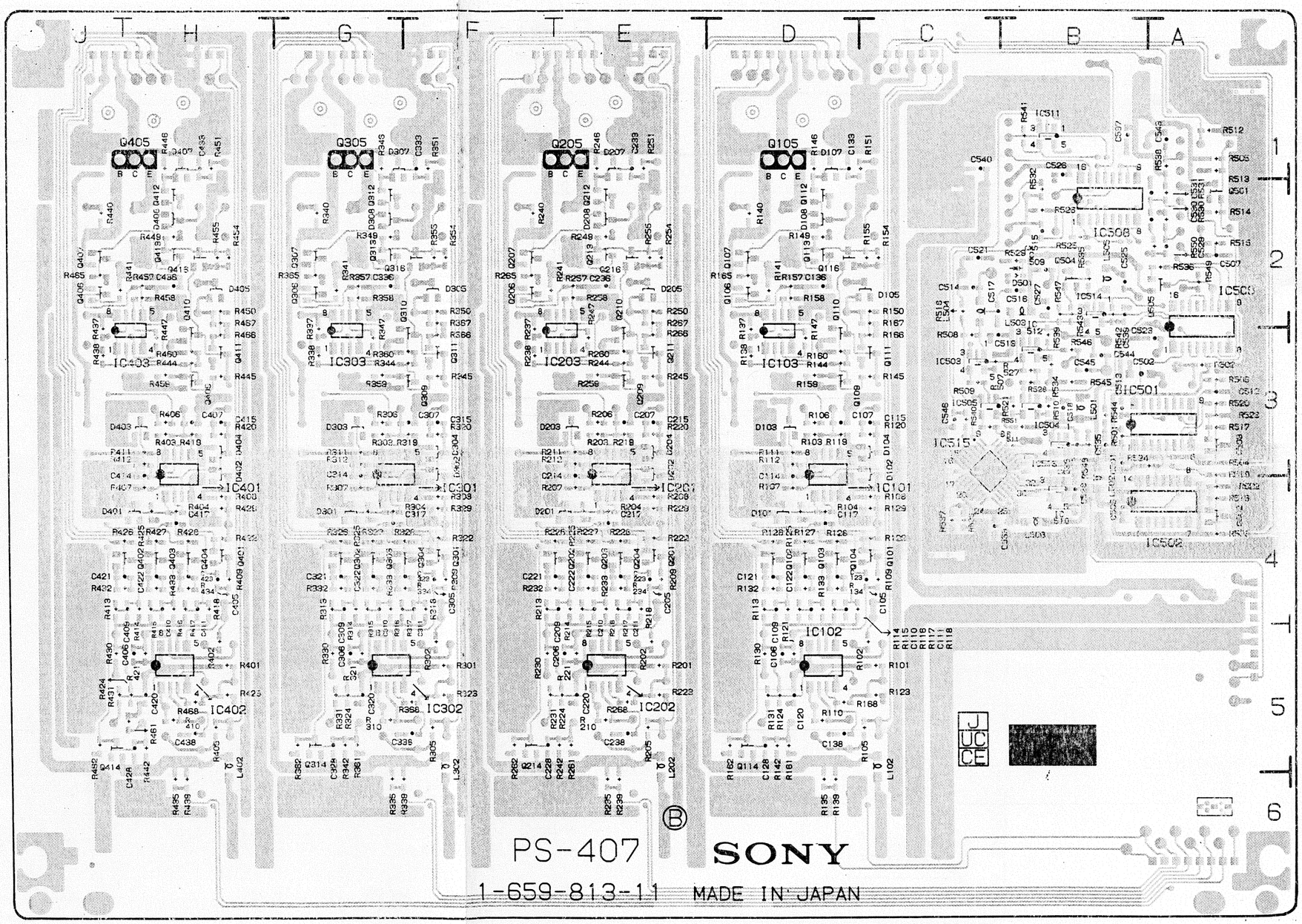
PS-407 BOARD	
CN101	D-1
CN102	C-1
CN201	E-1
CN201	E-1
CN202	E-1
CN301	G-1
CN302	F-1
CN401	J-1
CN402	H-1
CN601	A-5
CN602	A-6
CT501	C-2
CT502	B-3
IC506	A-2
IC507	B-1
Q105	D-1
Q205	E-1
Q305	G-1
Q405	H-1
X501	B-3



PS-407 BOARD – A SIDE –
1-659-813-11

PS-407 BOARD

D101	D-4	Q101	C-4
D102	C-3	Q102	D-4
D103	D-3	Q103	D-4
D104	C-3	Q104	D-4
D105	C-2		
		Q105	D-1
D107	D-1	Q106	D-2
D108	D-2	Q107	D-2
D201	F-4	Q109	D-3
D202	E-3	Q110	D-2
D203	E-3		
		Q111	C-3
D204	E-3	Q112	D-2
D205	E-2	Q113	D-2
D207	E-1	Q114	D-5
D208	E-2	Q116	D-2
D301	G-4		
		Q201	E-4
D302	F-3	Q202	E-4
D303	G-3	Q203	E-4
D304	F-3	Q204	E-4
D305	F-2	Q205	E-1
D307	G-1		
		Q206	F-2
D308	G-2	Q207	F-2
D401	H-4	Q209	E-3
D402	H-3	Q210	E-2
D403	H-3	Q211	E-3
D404	H-3		
		Q212	E-2
D405	H-2	Q213	E-2
D407	H-1	Q214	F-5
D408	H-2	Q301	F-4
D501	B-2	Q302	G-4
IC101	C-4	Q303	G-4
IC102	D-5	Q304	F-4
IC103	D-3	Q305	G-1
IC201	E-4	Q306	G-2
IC202	E-5	Q307	G-2
		Q309	F-3
IC203	E-3		
IC301	F-4	Q310	F-2
IC302	F-5	Q311	F-3
IC303	G-3	Q312	G-2
IC401	H-4	Q313	G-2
		Q314	G-5
IC402	H-5		
IC403	H-3	Q316	G-3
IC501	B-3	Q401	H-4
IC502	A-4	Q402	H-4
IC503	C-3	Q403	H-4
		Q404	H-4
IC504	B-3		
IC505	C-3	Q405	H-1
IC508	B-2	Q406	J-2
IC509	A-2	Q407	J-2
IC510	B-4	Q409	H-3
IC511	B-1	Q410	H-2
IC512	B-3	Q411	H-3
IC513	B-3	Q412	H-2
IC514	B-2	Q413	H-2
		Q414	J-5
		Q416	H-2



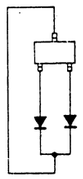
PS-407 BOARD – B SIDE –
1-659-813-11

4-4. SEMICONDUCTOR PIN ASSIGNMENT

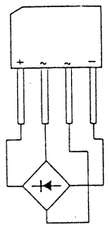
等価回路はICメーカーのData Bookに従いました。
The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

1SS184

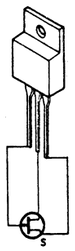
TOP VIEW



LN4SB60



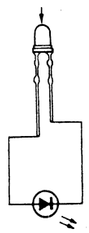
2SK903-M



1SS193

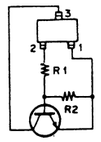
SLR-34MG3F

RADIATION SIDE



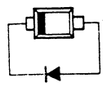
DTC114EKA-T146

TOP VIEW



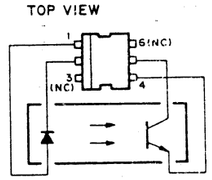
HVU359TRF

TOP VIEW

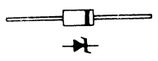


TLP732-D4-GR-LF2

TOP VIEW

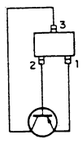


RD39ES-B2
RD7.5ESB2



2SA1162-G

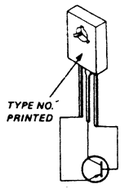
TOP VIEW



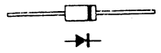
RD3.3M-B
RD33M-B
RD7.5M-B2
RD7.5M-T1B

TOP VIEW

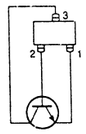
2SA1220A-P
2SA1220A-Q



ERB44-06
RG1C
RG4C
RGP30KL-6423
RU-3AM

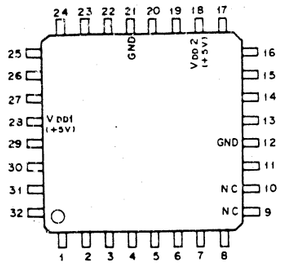


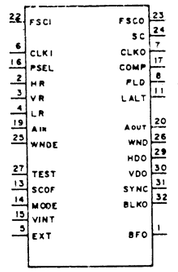
2SC1623-L5L6



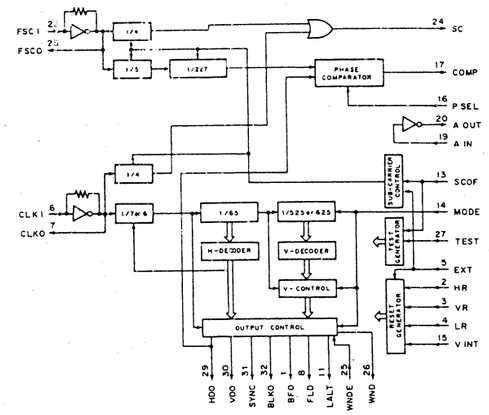
CXD1159Q (SONY)

C-MOS SYNC GENERATOR
– TOP VIEW –





PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	BFO	9	–	NC	17	O	COMP	25	I	WNDE
2	I	HR	10	–	NC	18	–	VDD2(+5V)	26	O	WND
3	I	VR	11	O	LALT	19	I	AIN	27	I	TEST
4	I	LR	12	–	GND	20	O	AOUT	28	–	VDD1(+5V)
5	I	EXT	13	I	SCOF	21	–	GND	29	O	HDO
6	I	CLKI	14	I	MODE	22	I	FSCI	30	O	VDO
7	O	CLKO	15	I	VINT	23	O	FSCO	31	O	SYNC
8	O	FLD	16	I	PSEL	24	O	SC	32	O	BLKO



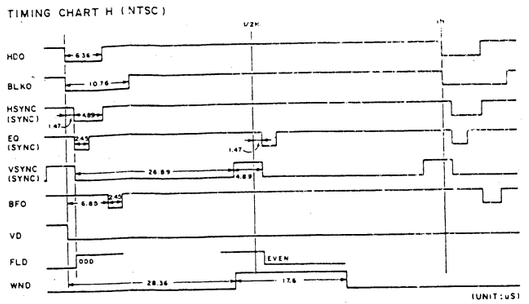
INPUT

AIN	: FILTER INVERTER INPUT
CLKI	: CLOCK INPUT (NTSC ; 14.31818MHz /PAL ; 14.1875MHz)
EXT	: INT/EXT (L ; INT)
FSCI	: 4FSC CLOCK INPUT
HR	: H RESET
LR	: LALT RESET
MODE	: NTSC/PAL (L ; NTSC)
PSEL	: POLARITY SELECT FOR PHASE COMP
SCOF	: SUBCARRIER OFF (L ; OFF)
TEST	: TEST INPUT
VINT	: INITIALIZE
VR	: V RESET
WNDE	: WINDOW ENABLE

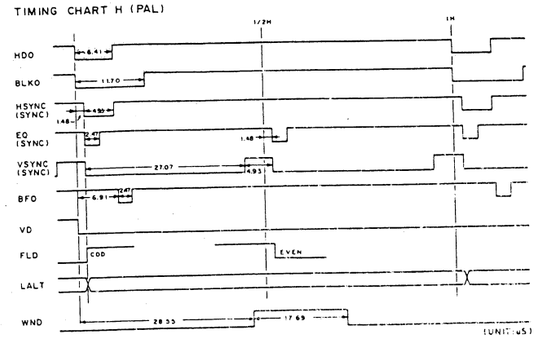
OUTPUT

AOUT	: FILTER INVERTER OUTPUT
BFO	: BURST FLAG PULSE
BLKO	: COMPOSITE BLANKING PULSE
CLKO	: CLOCK OUTPUT
COMP	: PHASE COMP
FLD	: FIELD PULSE
FSCO	: 4FSC CLOCK OUTPUT
HDO	: H DRIVE PULSE
LALT	: LINE ALTERNATE PULSE
SC	: SUBCARRIER
SYNC	: COMPOSITE SYNC PULSE
VDO	: V DRIVE PULSE
WND	: WINDOW

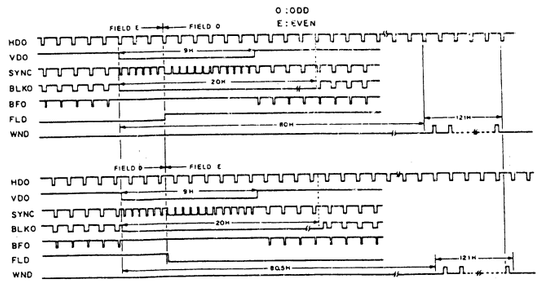
TIMING CHART H (NTSC)



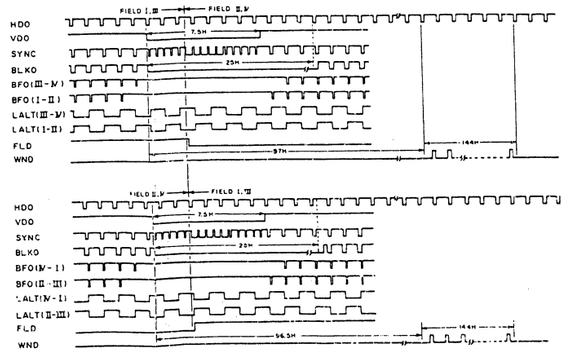
TIMING CHART H (PAL)



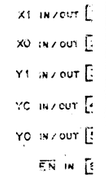
TIMING CHART V (NTSC)



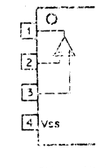
TIMING CHART V (PAL)



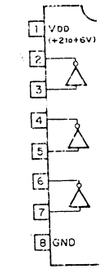
HD14053BFF
C-MOS TRIPL
- TOP VIEW -



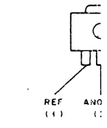
MC14577CF
C-MOS DUAL
– TOP VIEW



MC74HC40
C-MOS HEX
– TOP VIEW

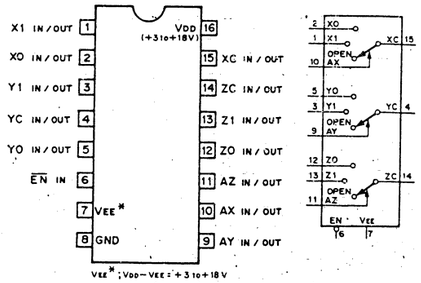


NJM431U
ADJUSTAB
- FRONT



HD14053BFP (HITACHI) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS / DEMULTIPLEXERS
- TOP VIEW -



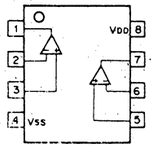
VEE* ; VDD − VEE = +3 to +18 V

CONT. INPUTS		ON
EN	A (X, Y, Z)	CHANNEL
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

MC14577CF (MOTOROLA) FLAT PACKAGE

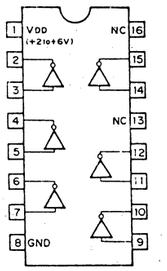
C-MOS DUAL VIDEO AMPLIFIERS
- TOP VIEW -

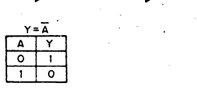


*VDD + |VSS| = +5V to +12V

MC74HC4049F (MOTOROLA) FLAT PACKAGE

C-MOS HEX BUFFER/CONVERTER (INVERTING)
- TOP VIEW -



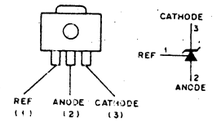


Y = Ā	
A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

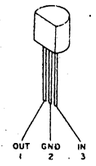
NJM431U (JRC)

ADJUSTABLE PRECISION SHUNT REGULATOR
- FRONT VIEW -



NJM78L05A (JRC) +5V (100mA)

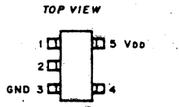
POSITIVE VOLTAGE REGULATOR

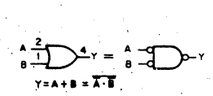


SC7S32F (MOTOROLA) CHIP PACKAGE

C-MOS 2-INPUT OR GATE

TOP VIEW





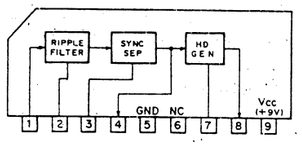
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S32F 7S32FU	+2 to +6V
4S71F	+3 to +18V
7SH32FU	−2 to +5.5V

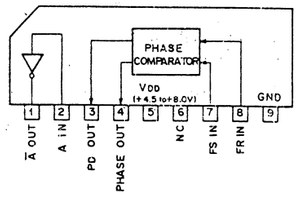
TA7357AP (TOSHIBA)

SYNC SEPARATOR/HD PULSE GENERATOR
— SIDE VIEW —

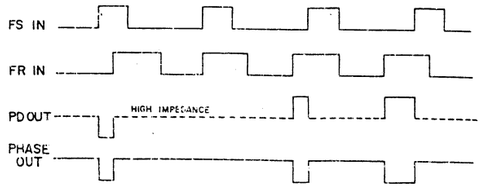


TC5081AP (TOSHIBA)

C-MOS PHASE COMPARATOR
— SIDE VIEW —

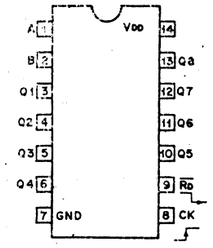


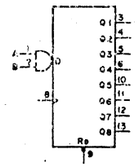
PHASE COMPARATOR TIMING CHART



TC74HC164AF(EL) (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
- TOP VIEW -



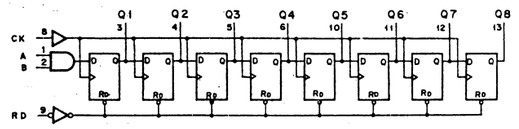


INPUTS				OUTPUTS			
RD	CK	A	B	Q1	Q2	----	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q1o	Q2o	----	Q8o
1	↑	1	1	1	Q1n	----	Q7n
1	↑	0	X	0	Q1n	----	Q7n
1	↑	X	0	0	Q1n	----	Q7n

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

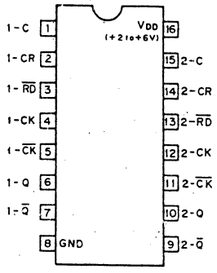
NOTE :

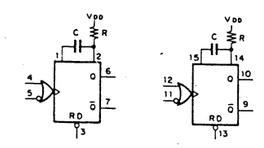
TYPE	VDD
AC/VHC	+2 to +5.5V
HC	+2 to +6V
HCT	+5V



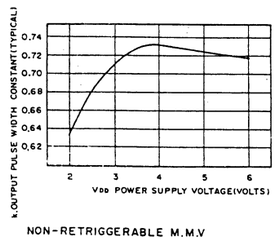
TC74HC4538AF (TOSHIBA) FLAT PACKAGE

C - MOS DUAL RETRIGGERABLE / NON - RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -

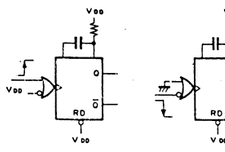




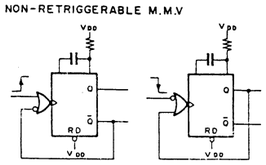
OUTPUT PULSE WIDTH = k·C·R



RETRIGGERABLE M.M.V



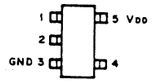
NON-RETRIGGERABLE M.M.V

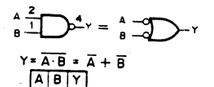


TC7S00F (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT NAND GATE

(SCALE 6/1)
TOP VIEW





A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

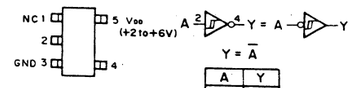
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S00F 7S00FU	+2 to +6V
4S11F 4SU11F	+3 to +18V
7SH00FU	+2 to +5.5V

TC7S14F-TE85L (TOSHIBA) CHIP PACKAGE

C-MOS SCHMITT INVERTER

(SCALE 6/1)
TOP VIEW



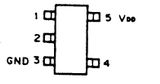
A	Y
0	1
1	0

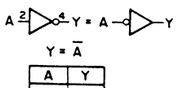
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7SU04F (TE85R) (TOSHIBA) CHIP PACKAGE

C-MOS INVERTER

(SCALE 6/1)
TOP VIEW



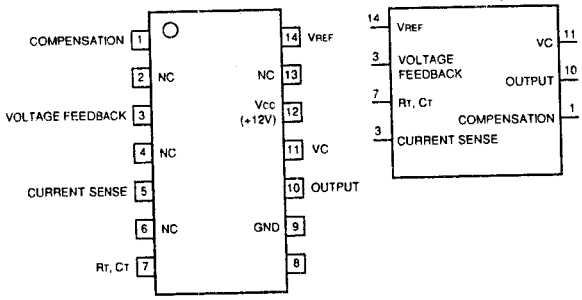


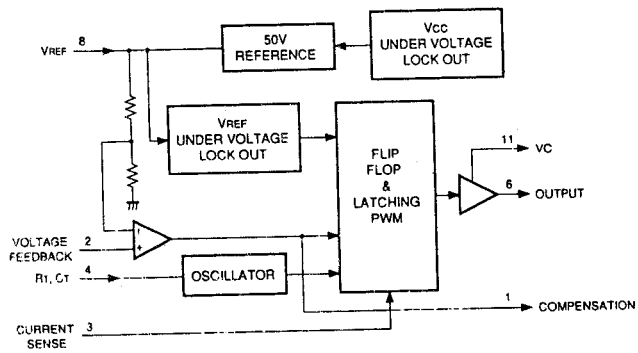
A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

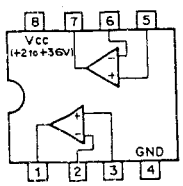
TYPE	VDD
7S04F 7SU04F	+2 to +6V
4S69F 4SU69F	+3 to +18V
7SH04FU	+2 to +5.5V

UC3842AD (MOTOROLA) (FLAT PACKAGE)
UC3842ADR2 (MOTOROLA) (FLAT PACKAGE)
HIGH PERFORMANCE CURRENT MODE PWM CONTROLLER
—TOP VIEW—

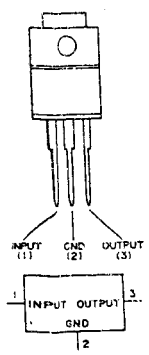




UPC393G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
– TOP VIEW –



UPC24M08AHF (NEC) : +8V (0.5A)
POSITIVE VOLTAGE REGULATOR
— FRONT VIEW —



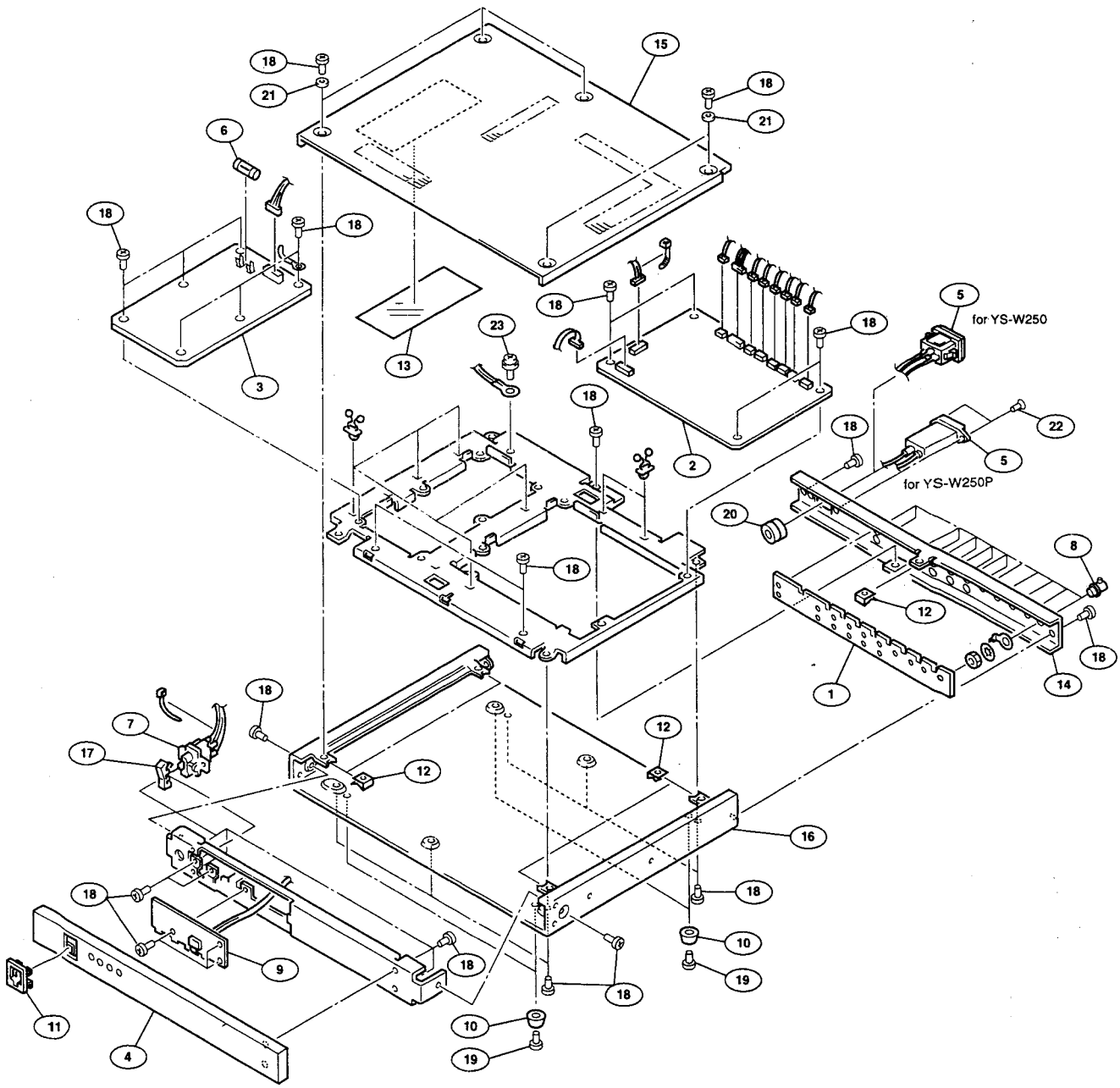
SECTION 5
REPAIR PARTS

[NOTE]

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All resistors are in ohms.
- Items marked "o" in the SP column are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.

The components identified by mark ⚠ are critical for safety. Replace only with part number specified.

5-1. EXPLODED VIEW



No.	Part No.	SP	Description	
1	A-8273-305-A	o	MOUNTED CIRCUIT BOARD, CN-1126B	
2	A-8273-307-A	o	MOUNTED CIRCUIT BOARD, PS-407N2	(for YS-W250)
	A-8273-326-A	o	MOUNTED CIRCUIT BOARD, PS-407P	(for YS-W250P)
3	A-8273-309-A	o	MOUNTED CIRCUIT BOARD, AC-174	(for YS-W250)
	A-8273-328-A	o	MOUNTED CIRCUIT BOARD, AC-174	(for YS-W250P)
4	A-8273-788-A	o	PANEL SUB ASSY, FRONT	
5	⚠1-526-954-11	s	INLET, AC	(for YS-W250)
	⚠1-251-381-11	s	INLET, AC (3P)	(for YS-W250P)
6	⚠1-532-743-11	s	FUSE, GLASS TUBE 2A 125V	(for YS-W250)
	⚠1-576-229-11	s	FUSE (H.B.C.) 2.5A 250V	(for YS-W250P)
7	⚠1-570-384-11	s	SWITCH, ROCKER (AC POWER)	
8	1-580-724-21	s	CONNECTOR, BNC	
9	1-659-814-11	o	PRINTED CIRCUIT BOARD, LED-227	
10	2-092-326-99	s	FOOT, RUBBER	
11	3-182-406-01	o	GUARD, POWER SW	
12	3-189-523-01	o	SPRING, PLATE	
13	3-189-524-01	s	INSULATOR	
14	3-602-514-01	o	PANEL, REAR (B)	(for YS-W250)
	3-602-518-01	o	PANEL, REAR (C)	(for YS-W250P)
15	3-602-520-01	o	LID, UPPER	
16	3-602-521-02	o	LID, LOWER	
17	3-688-814-11	s	CAP, SWITCH	
18	7-682-546-04	s	SCREW +B 3X5	
19	7-682-548-09	s	SCREW +B 3X8	
20	1-239-231-11	s	FILTER, DATA LINE	
21	7-623-308-07	s	LW 3, TYPE (A)	(for YS-W250)
22	7-682-248-09	s	SCREW +K 3X8	
23	7-682-961-01	s	SCREW +PSW 4X8	

5-2. ELECTRICAL PARTS LIST

AC-174 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8273-309-A	o	MOUNTED CIRCUIT BOARD, AC-174 [for YS-W250]
1pc	A-8273-328-A	o	MOUNTED CIRCUIT BOARD, AC-174 [for YS-W250P]
1pc	⚠ 1-532-743-11	s	FUSE, GLASS TUBE 2A 125V [for YS-W250]
1pc	⚠ 1-576-229-11	s	FUSE (H.B.C.) 2.5A 250V [for YS-W250P]
3pcs	7-682-548-09	s	SCREW +B 3X8 [for YS-W250]
2pcs	7-682-548-09	s	SCREW +B 3X8 [for YS-W250P]
1pc	4-363-146-00	o	HEAT SINK, V.OUT
C701	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C702	1-107-929-11	s	ELECT 10uF 20% 100V
C703	1-104-557-11	s	FILM, CHIP 0.033uF 5% 16V
C704	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V
C705	1-104-547-11	s	FILM, CHIP 0.0047uF 5% 16V
C706	⚠ 1-136-212-12	s	FILM 0.1uF 20% 250V
C707	⚠ 1-113-903-11	s	CERAMIC 0.001uF 20% 250V [for YS-W250]
C707	⚠ 1-113-896-11	s	ELECT 220PF 10% 250V [for YS-W250P]
C708	⚠ 1-113-903-11	s	CERAMIC 0.001uF 20% 250V [for YS-W250]
C708	⚠ 1-113-896-11	s	ELECT 220PF 10% 250V [for YS-W250P]
C709	1-136-205-11	s	FILM 0.022uF 5% 630V
C710	1-136-205-11	s	FILM 0.022uF 5% 630V
C711	1-136-205-11	s	FILM 0.022uF 5% 630V
C712	1-136-205-11	s	FILM 0.022uF 5% 630V
C713	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C714	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C715	1-128-226-11	s	ELECT (SMALL) 220uF 20% 50V
C716	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C717	1-115-431-11	s	ELECT 220uF 20% 315V
C718	1-115-431-11	s	ELECT 220uF 20% 315V
C719	1-104-799-11	s	ELECT 22uF 20% 100V
C720	1-126-163-11	s	ELECT 4.7MF 20% 50V
C721	1-113-898-11	s	CERAMIC 330PF 10% 250V
C722	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C723	1-136-200-11	s	FILM 0.15uF 5% 400V
C724	⚠ 1-113-903-11	s	CERAMIC 0.001uF 20% 250V
C725	1-113-907-51	s	CERAMIC 0.0022uF 20% 250V
C802	1-104-799-11	s	ELECT 22uF 20% 100V
C803	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C804	1-111-066-11	s	ELECT 820uF 20% 25V
C805	1-111-066-11	s	ELECT 820uF 20% 25V
C806	1-111-215-11	s	ELECT 0.001F 20% 50V
C807	1-111-215-11	s	ELECT 0.001F 20% 50V
C808	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C809	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C810	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C811	1-111-215-11	s	ELECT 0.001F 20% 50V
C812	1-111-198-11	s	ELECT 470uF 20% 25V
C813	1-111-198-11	s	ELECT 470uF 20% 25V
C814	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C815	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C816	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C817	1-136-177-00	s	FILM 1uF 5% 50V
C818	1-104-799-11	s	ELECT 22uF 20% 100V
C819	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V

(AC-174 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C820	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C821	1-164-505-11	s	CERAMIC, CHIP 2.2uF 16V
C822	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C823	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
CN801	1-506-474-11	s	CONNECTOR, 9P, MALE
D701	8-719-157-11	s	DIODE RD3.3M-B
D702	8-719-052-84	s	DIODE LN4SB60
D703	8-719-300-33	s	DIODE RU-3AM
D704	8-719-302-98	s	DIODE RG4C
D705	8-719-300-33	s	DIODE RU-3AM
D706	8-719-801-48	s	DIODE 1SS193
D707	8-719-302-98	s	DIODE RG4C
D801	8-719-027-56	s	DIODE RGP30KL-6423
D802	8-719-027-56	s	DIODE RGP30KL-6423
D803	8-719-027-56	s	DIODE RGP30KL-6423
D804	8-719-118-12	s	DIODE RD33M-B
D805	8-719-106-23	s	DIODE RD7.5M-B2
FH701	1-533-213-31	o	HOLDER, FUSE
FH702	1-533-213-31	o	HOLDER, FUSE
IC701	8-759-356-35	s	IC UC3842ADR2
IC801	8-759-710-88	s	IC NJM431U
IC802	8-759-390-45	s	IC UPC24M08AHF
IC803	8-759-708-05	s	IC NJM78L05A
IC804	8-759-100-93	s	IC UPC393G2
JR701	1-216-296-00	s	METAL, CHIP 0-OHM
JR702	1-216-296-00	s	METAL, CHIP 0-OHM
JR703	1-216-296-00	s	METAL, CHIP 0-OHM
JR704	1-216-296-00	s	METAL, CHIP 0-OHM
JR705	1-216-296-00	s	METAL, CHIP 0-OHM
JR801	1-216-296-00	s	METAL, CHIP 0-OHM
JR802	1-216-296-00	s	METAL, CHIP 0-OHM
JR803	1-216-296-00	s	METAL, CHIP 0-OHM
JR804	1-216-296-00	s	METAL, CHIP 0-OHM
L801	1-412-519-11	s	INDUCTOR 3.3uH
L802	1-412-519-11	s	INDUCTOR 3.3uH
LF701	⚠ 1-411-836-11	s	COIL, LINE FILTER
LF702	⚠ 1-429-354-11	s	TRANSFORMER, LINE FILTER
PH701	⚠ 8-749-925-12	s	PHOTO COUPLER TLP732-D4-GR-LF2
PH702	⚠ 8-749-925-12	s	PHOTO COUPLER TLP732-D4-GR-LF2
PH703	⚠ 8-749-925-12	s	PHOTO COUPLER TLP732-D4-GR-LF2
Q701	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q702	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q703	8-729-034-77	s	TRANSISTOR 2SK903-M
Q704	8-729-034-77	s	TRANSISTOR 2SK903-M
Q705	8-729-216-22	s	TRANSISTOR 2SA1162
Q801	8-729-216-22	s	TRANSISTOR 2SA1162
Q802	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q803	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R701	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R702	1-208-784-11	s	METAL, CHIP 1.2K 0.50% 1/10W
R703	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R704	1-215-902-11	s	METAL 47K 5% 2W
R705	1-215-902-11	s	METAL 47K 5% 2W
R706	1-215-902-11	s	METAL 47K 5% 2W
R707	1-215-927-00	s	METAL 47K 5% 3W [for YS-W250]

(AC-174 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R707	1-215-929-11	s	METAL 100K 5% 3W [for YS-W250P]
R708	1-220-335-11	s	METAL, CHIP 180K 5% 1/2W
R709	1-220-335-11	s	METAL, CHIP 180K 5% 1/2W
R710	1-220-335-11	s	METAL, CHIP 180K 5% 1/2W
R711	1-220-335-11	s	METAL, CHIP 180K 5% 1/2W
R712	1-215-857-11	s	METAL 10 5% 1W
R713	1-215-857-11	s	METAL 10 5% 1W
R714	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R715	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R716	1-215-897-11	s	METAL 6.8K 5% 2W
R717	1-215-897-11	s	METAL 6.8K 5% 2W
R718	1-215-900-11	s	METAL 22K 5% 2W
R719	1-215-900-11	s	METAL 22K 5% 2W
R720	1-215-863-11	s	METAL 100 5% 1W
R721	1-216-351-00	s	METAL 1.5 5% 1W
R722	1-216-351-00	s	METAL 1.5 5% 1W
R723	1-216-351-00	s	METAL 1.5 5% 1W
R724	1-216-298-00	s	METAL 2.2 5% 1/10W
R725	1-216-298-00	s	METAL 2.2 5% 1/10W
R726	1-208-812-11	s	METAL, CHIP 18K 0.50% 1/10W
R727	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R801	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R802	1-216-629-11	s	METAL, CHIP 120 0.5% 1/10W
R803	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R804	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R805	1-208-789-11	s	METAL, CHIP 2K 0.50% 1/10W
R806	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R807	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R808	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R809	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R810	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R811	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R812	1-208-806-11	s	METAL, CHIP 10K 0.50% 1/10W
R813	1-215-894-11	s	METAL 2.2K 5% 2W
R814	1-215-894-11	s	METAL 2.2K 5% 2W
R815	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R816	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R817	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R818	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R819	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R820	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R821	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R822	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R823	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R824	1-208-774-11	s	METAL, CHIP 470 0.50% 1/10W
RV801	1-241-760-21	s	RES, ADJ, METAL 470
T701	⚠1-429-582-11	s	TRANSFORMER, CONVERTER

CN-1126 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8273-305-A	o	MOUNTED CIRCUIT BOARD, CN-1126B
D301	8-719-110-88	s	DIODE RD39ESB2
D302	8-719-110-88	s	DIODE RD39ESB2
D303	8-719-110-88	s	DIODE RD39ESB2
D304	8-719-110-88	s	DIODE RD39ESB2
D305	8-719-110-03	s	DIODE RD7.5ES-B2
D306	8-719-110-03	s	DIODE RD7.5ES-B2
D307	8-719-110-03	s	DIODE RD7.5ES-B2
D308	8-719-110-03	s	DIODE RD7.5ES-B2
D309	8-719-110-03	s	DIODE RD7.5ES-B2
D310	8-719-110-03	s	DIODE RD7.5ES-B2
D311	8-719-110-03	s	DIODE RD7.5ES-B2
D312	8-719-110-03	s	DIODE RD7.5ES-B2
D313	8-719-110-03	s	DIODE RD7.5ES-B2
D314	8-719-110-03	s	DIODE RD7.5ES-B2
D315	8-719-110-03	s	DIODE RD7.5ES-B2
D316	8-719-110-03	s	DIODE RD7.5ES-B2
D317	8-719-110-03	s	DIODE RD7.5ES-B2
D318	8-719-110-03	s	DIODE RD7.5ES-B2
D319	8-719-110-03	s	DIODE RD7.5ES-B2
D320	8-719-110-03	s	DIODE RD7.5ES-B2
D321	8-719-110-03	s	DIODE RD7.5ES-B2
D322	8-719-110-03	s	DIODE RD7.5ES-B2
R301	1-247-804-11	s	CARBON 75 5% 1/4W
S301	1-571-738-11	s	SWITCH, SLIDE
S306	1-570-056-11	s	SWITCH, SLIDE
S307	1-570-056-11	s	SWITCH, SLIDE
S308	1-570-056-11	s	SWITCH, SLIDE
S309	1-570-056-11	s	SWITCH, SLIDE
S310	1-571-738-11	s	SWITCH, SLIDE

LED-227 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-659-814-11	o	PRINTED CIRCUIT BOARD, LED-227
4pcs	4-348-208-00	o	HOLDER, LED
D401	8-719-980-40	s	DIODE SLR-34MG3F
D402	8-719-980-40	s	DIODE SLR-34MG3F
D403	8-719-980-40	s	DIODE SLR-34MG3F
D404	8-719-980-40	s	DIODE SLR-34MG3F

PS-407 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8273-307-A	o	MOUNTED CIRCUIT BOARD, PS-407N2 [for YS-W250]
1pc	A-8273-326-A	o	MOUNTED CIRCUIT BOARD, PS-407P [for YS-W250P]
4pcs	3-334-236-01	s	INSULATOR, TO-220
4pcs	4-363-146-00	o	HEAT SINK, V.OUT
4pcs	7-682-548-09	s	SCREW +B 3X8
C101	1-128-526-11	s	ELECT 100uF 20% 25V
C102	1-107-929-11	s	ELECT 10uF 20% 100V
C103	1-128-526-11	s	ELECT 100uF 20% 25V
C104	1-107-929-11	s	ELECT 10uF 20% 100V
C105	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C106	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C107	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C108	1-104-664-11	s	ELECT 47uF 20% 25V
C109	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C110	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C111	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C112	1-124-903-11	s	ELECT 1uF 20% 50V
C113	1-124-903-11	s	ELECT 1uF 20% 50V
C114	1-163-251-11	s	CERAMIC 100PF 5% 50V
C115	1-163-222-11	s	CERAMIC 5PF 0.50PF 50V
C116	1-104-664-11	s	ELECT 47uF 20% 25V
C117	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C118	1-104-664-11	s	ELECT 47uF 20% 25V
C119	1-104-664-11	s	ELECT 47uF 20% 25V
C120	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C121	1-163-038-91	s	CERAMIC 0.1uF 25V
C122	1-163-038-91	s	CERAMIC 0.1uF 25V
C123	1-163-038-91	s	CERAMIC 0.1uF 25V
C124	1-124-903-11	s	ELECT 1uF 20% 50V
C125	1-107-914-11	s	ELECT 1000uF 20% 50V
C126	1-104-664-11	s	ELECT 47uF 20% 25V
C127	1-107-909-11	s	ELECT 47uF 20% 50V
C128	1-163-145-00	s	CERAMIC, CHIP 0.0015uF 5% 50V
C130	1-128-526-11	s	ELECT 100uF 20% 25V
C134	1-128-526-11	s	ELECT 100uF 20% 25V
C136	1-165-319-11	s	CERAMIC, CHIP 0.1uF 50V
C137	1-104-799-11	s	ELECT 22uF 20% 100V
C138	1-163-251-11	s	CERAMIC 100PF 5% 50V
C201	1-128-526-11	s	ELECT 100uF 20% 25V
C202	1-107-929-11	s	ELECT 10uF 20% 100V
C203	1-128-526-11	s	ELECT 100uF 20% 25V
C204	1-107-929-11	s	ELECT 10uF 20% 100V
C205	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C206	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C207	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C208	1-104-664-11	s	ELECT 47uF 20% 25V
C209	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C210	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C211	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C212	1-124-903-11	s	ELECT 1uF 20% 50V
C213	1-124-903-11	s	ELECT 1uF 20% 50V
C214	1-163-251-11	s	CERAMIC 100PF 5% 50V
C215	1-163-222-11	s	CERAMIC 5PF 0.50PF 50V
C216	1-104-664-11	s	ELECT 47uF 20% 25V
C217	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C218	1-104-664-11	s	ELECT 47uF 20% 25V
C219	1-104-664-11	s	ELECT 47uF 20% 25V

(PS-407 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C220	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C221	1-163-038-91	s	CERAMIC 0.1uF 25V
C222	1-163-038-91	s	CERAMIC 0.1uF 25V
C223	1-163-038-91	s	CERAMIC 0.1uF 25V
C224	1-124-903-11	s	ELECT 1uF 20% 50V
C225	1-107-914-11	s	ELECT 1000uF 20% 50V
C226	1-104-664-11	s	ELECT 47uF 20% 25V
C227	1-107-909-11	s	ELECT 47uF 20% 50V
C228	1-163-145-00	s	CERAMIC, CHIP 0.0015uF 5% 50V
C230	1-128-526-11	s	ELECT 100uF 20% 25V
C234	1-128-526-11	s	ELECT 100uF 20% 25V
C236	1-165-319-11	s	CERAMIC, CHIP 0.1uF 50V
C237	1-104-799-11	s	ELECT 22uF 20% 100V
C238	1-163-251-11	s	CERAMIC 100PF 5% 50V
C301	1-128-526-11	s	ELECT 100uF 20% 25V
C302	1-107-929-11	s	ELECT 10uF 20% 100V
C303	1-128-526-11	s	ELECT 100uF 20% 25V
C304	1-107-929-11	s	ELECT 10uF 20% 100V
C305	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C306	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C307	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C308	1-104-664-11	s	ELECT 47uF 20% 25V
C309	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C310	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C311	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C312	1-124-903-11	s	ELECT 1uF 20% 50V
C313	1-124-903-11	s	ELECT 1uF 20% 50V
C314	1-163-251-11	s	CERAMIC 100PF 5% 50V
C315	1-163-222-11	s	CERAMIC 5PF 0.50PF 50V
C316	1-104-664-11	s	ELECT 47uF 20% 25V
C317	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C318	1-104-664-11	s	ELECT 47uF 20% 25V
C319	1-104-664-11	s	ELECT 47uF 20% 25V
C320	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C321	1-163-038-91	s	CERAMIC 0.1uF 25V
C322	1-163-038-91	s	CERAMIC 0.1uF 25V
C323	1-163-038-91	s	CERAMIC 0.1uF 25V
C324	1-124-903-11	s	ELECT 1uF 20% 50V
C325	1-107-914-11	s	ELECT 1000uF 20% 50V
C326	1-104-664-11	s	ELECT 47uF 20% 25V
C327	1-107-909-11	s	ELECT 47uF 20% 50V
C328	1-163-145-00	s	CERAMIC, CHIP 0.0015uF 5% 50V
C330	1-128-526-11	s	ELECT 100uF 20% 25V
C334	1-128-526-11	s	ELECT 100uF 20% 25V
C336	1-165-319-11	s	CERAMIC, CHIP 0.1uF 50V
C337	1-104-799-11	s	ELECT 22uF 20% 100V
C338	1-163-251-11	s	CERAMIC 100PF 5% 50V
C401	1-128-526-11	s	ELECT 100uF 20% 25V
C402	1-107-929-11	s	ELECT 10uF 20% 100V
C403	1-128-526-11	s	ELECT 100uF 20% 25V
C404	1-107-929-11	s	ELECT 10uF 20% 100V
C405	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C406	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C407	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C408	1-104-664-11	s	ELECT 47uF 20% 25V
C409	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C410	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C411	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C412	1-124-903-11	s	ELECT 1uF 20% 50V

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Ref. No. or Q'ty	Part No.	SP	Description
C413	1-124-903-11	s	ELECT 1uF 20% 50V
C414	1-163-251-11	s	CERAMIC 100PF 5% 50V
C415	1-163-222-11	s	CERAMIC 5PF 0.50PF 50V
C416	1-104-664-11	s	ELECT 47uF 20% 25V
C417	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C418	1-104-664-11	s	ELECT 47uF 20% 25V
C419	1-104-664-11	s	ELECT 47uF 20% 25V
C420	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C421	1-163-038-91	s	CERAMIC 0.1uF 25V
C422	1-163-038-91	s	CERAMIC 0.1uF 25V
C423	1-163-038-91	s	CERAMIC 0.1uF 25V
C424	1-124-903-11	s	ELECT 1uF 20% 50V
C425	1-107-914-11	s	ELECT 1000uF 20% 50V
C426	1-104-664-11	s	ELECT 47uF 20% 25V
C427	1-107-909-11	s	ELECT 47uF 20% 50V
C428	1-163-145-00	s	CERAMIC, CHIP 0.0015uF 5% 50V
C430	1-128-526-11	s	ELECT 100uF 20% 25V
C434	1-128-526-11	s	ELECT 100uF 20% 25V
C436	1-165-319-11	s	CERAMIC, CHIP 0.1uF 50V
C437	1-104-799-11	s	ELECT 22uF 20% 100V
C438	1-163-251-11	s	CERAMIC 100PF 5% 50V
C502	1-104-563-11	s	FILM 0.1uF 5% 16V
C503	1-107-929-11	s	ELECT 10uF 20% 100V
C504	1-124-464-11	s	ELECT 0.22MF 20% 50V
C505	1-104-664-11	s	ELECT 47uF 20% 25V
C507	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C508	1-107-929-11	s	ELECT 10uF 20% 100V
C509	1-163-038-91	s	CERAMIC 0.1uF 25V
C510	1-124-767-00	s	ELECT, NONPOLAR 2.2uF 20% 50V
C511	1-126-151-11	s	ELECT, NONPOLAR 4.7uF 20% 16V
C512	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C513	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C514	1-163-231-11	s	CERAMIC 15PF 5% 50V
C515	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C516	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 50V
C517	1-163-220-11	s	CERAMIC 3PF 0.25PF 50V
C518	1-163-038-91	s	CERAMIC 0.1uF 25V
C519	1-163-038-91	s	CERAMIC 0.1uF 25V
C520	1-107-929-11	s	ELECT 10uF 20% 100V
C521	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C523	1-163-038-91	s	CERAMIC 0.1uF 25V
C524	1-107-929-11	s	ELECT 10uF 20% 100V
C525	1-163-038-91	s	CERAMIC 0.1uF 25V
C526	1-163-038-91	s	CERAMIC 0.1uF 25V
C527	1-163-038-91	s	CERAMIC 0.1uF 25V
C528	1-163-038-91	s	CERAMIC 0.1uF 25V
C529	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C530	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C531	1-163-134-00	s	CERAMIC 510PF 5% 50V
C532	1-107-929-11	s	ELECT 10uF 20% 100V
C533	1-163-038-91	s	CERAMIC 0.1uF 25V
C535	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C536	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C537	1-163-038-91	s	CERAMIC 0.1uF 25V
C539	1-163-038-91	s	CERAMIC 0.1uF 25V
C540	1-163-038-91	s	CERAMIC 0.1uF 25V
C542	1-124-903-11	s	ELECT 1uF 20% 50V
C543	1-163-134-00	s	CERAMIC 510PF 5% 50V
C544	1-163-089-00	s	CERAMIC, CHIP 6PF 50V

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Ref. No. or Q'ty	Part No.	SP	Description
C545	1-163-245-11	s	CERAMIC 56PF 5% 50V
C546	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C601	1-126-934-11	s	ELECT 220uF 20% 16V
C602	1-126-934-11	s	ELECT 220uF 20% 16V
C603	1-128-226-11	s	ELECT (SMALL) 220uF 20% 50V
CN101	1-564-009-11	o	CONNECTOR, 10P, MALE
CN102	1-564-004-11	o	CONNECTOR, 5P, MALE
CN201	1-564-005-11	o	CONNECTOR, 6P, MALE
CN202	1-564-002-11	s	CONNECTOR, 3P, MALE
CN301	1-506-471-11	s	CONNECTOR, 6P, MALE
CN302	1-506-468-11	s	CONNECTOR, 3P, MALE
CN401	1-506-471-11	s	CONNECTOR, 6P, MALE
CN402	1-564-002-41	s	CONNECTOR, 3P, MALE
CN601	1-506-474-11	s	CONNECTOR, 9P, MALE
CN602	1-506-473-11	s	CONNECTOR, 8P, MALE
CT501	1-141-442-91	s	CAP, TRIMMER 20PF
CT502	1-141-442-91	s	CAP, TRIMMER 20PF
D102	8-719-801-48	s	DIODE 1SS193
D103	8-719-106-23	s	DIODE RD7.5M-B2
D104	8-719-106-23	s	DIODE RD7.5M-B2
D105	8-719-801-48	s	DIODE 1SS193
D107	8-719-801-48	s	DIODE 1SS193
D108	8-719-801-78	s	DIODE 1SS184
D202	8-719-801-48	s	DIODE 1SS193
D203	8-719-106-23	s	DIODE RD7.5M-B2
D204	8-719-106-23	s	DIODE RD7.5M-B2
D205	8-719-801-48	s	DIODE 1SS193
D207	8-719-801-48	s	DIODE 1SS193
D208	8-719-801-78	s	DIODE 1SS184
D302	8-719-801-48	s	DIODE 1SS193
D303	8-719-106-23	s	DIODE RD7.5M-B2
D304	8-719-106-23	s	DIODE RD7.5M-B2
D305	8-719-801-48	s	DIODE 1SS193
D307	8-719-801-48	s	DIODE 1SS193
D308	8-719-801-78	s	DIODE 1SS184
D402	8-719-801-48	s	DIODE 1SS193
D403	8-719-106-23	s	DIODE RD7.5M-B2
D404	8-719-106-23	s	DIODE RD7.5M-B2
D405	8-719-801-48	s	DIODE 1SS193
D407	8-719-801-48	s	DIODE 1SS193
D408	8-719-801-78	s	DIODE 1SS184
D501	8-719-031-68	s	DIODE HVU359TRF
IC101	8-759-262-03	s	IC MC14577CF
IC102	8-759-262-03	s	IC MC14577CF
IC103	8-759-100-93	s	IC UPC393G2
IC201	8-759-262-03	s	IC MC14577CF
IC202	8-759-262-03	s	IC MC14577CF
IC203	8-759-100-93	s	IC UPC393G2
IC301	8-759-262-03	s	IC MC14577CF
IC302	8-759-262-03	s	IC MC14577CF
IC303	8-759-100-93	s	IC UPC393G2
IC401	8-759-262-03	s	IC MC14577CF
IC402	8-759-262-03	s	IC MC14577CF
IC403	8-759-100-93	s	IC UPC393G2
IC501	8-759-239-34	s	IC TC74HC4538AF
IC503	8-759-231-32	s	IC TC7S00F
IC504	8-759-231-32	s	IC TC7S00F
IC505	8-759-231-32	s	IC TC7S00F

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Ref. No. or Q'ty	Part No.	SP	Description
IC506	8-759-201-47	s	IC TA7357AP
IC507	8-759-250-81	s	IC TC5081AP
IC508	8-759-300-71	s	IC HD14053BFP
IC509	8-759-008-36	s	IC MC74HC4049F
IC510	8-759-243-19	s	IC TC7SU04F
IC511	8-759-084-80	s	IC TC7S14F-TE85L
IC512	8-759-243-19	s	IC TC7SU04F
IC513	8-759-084-80	s	IC TC7S14F-TE85L
IC514	8-759-035-93	s	IC SC7S32F
IC515	8-752-326-08	s	IC CXD1159Q
L101	1-410-626-11	s	COIL, CHOKE 47uH
L102	1-414-119-11	s	INDUCTOR 22uH
L201	1-410-626-11	s	COIL, CHOKE 47uH
L202	1-414-119-11	s	INDUCTOR 22uH
L301	1-410-626-11	s	COIL, CHOKE 47uH
L302	1-414-119-11	s	INDUCTOR 22uH
L401	1-410-626-11	s	COIL, CHOKE 47uH
L402	1-414-119-11	s	INDUCTOR 22uH
L501	1-412-030-11	s	INDUCTOR CHIP 22uH
L502	1-412-030-11	s	INDUCTOR CHIP 22uH
L503	1-412-030-11	s	INDUCTOR CHIP 22uH
L504	1-410-381-11	s	INDUCTOR CHIP 10uH
L505	1-412-030-11	s	INDUCTOR CHIP 22uH
L506	1-412-030-11	s	INDUCTOR CHIP 22uH
Q101	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q102	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q103	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q104	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q105	8-729-122-03	s	TRANSISTOR 2SA1220A-P
Q106	8-729-216-22	s	TRANSISTOR 2SA1162
Q107	8-729-216-22	s	TRANSISTOR 2SA1162
Q109	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q110	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q111	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q112	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q113	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q114	8-729-216-22	s	TRANSISTOR 2SA1162
Q116	8-729-900-53	s	TRANSISTOR DTC114EK
Q201	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q202	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q203	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q204	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q205	8-729-122-03	s	TRANSISTOR 2SA1220A-P
Q206	8-729-216-22	s	TRANSISTOR 2SA1162
Q207	8-729-216-22	s	TRANSISTOR 2SA1162
Q209	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q210	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q211	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q212	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q213	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q214	8-729-216-22	s	TRANSISTOR 2SA1162
Q216	8-729-900-53	s	TRANSISTOR DTC114EK
Q301	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q302	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q303	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q304	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q305	8-729-122-03	s	TRANSISTOR 2SA1220A-P
Q306	8-729-216-22	s	TRANSISTOR 2SA1162
Q307	8-729-216-22	s	TRANSISTOR 2SA1162

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Ref. No. or Q'ty	Part No.	SP	Description
Q309	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q310	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q311	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q312	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q313	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q314	8-729-216-22	s	TRANSISTOR 2SA1162
Q316	8-729-900-53	s	TRANSISTOR DTC114EK
Q401	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q402	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q403	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q404	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q405	8-729-122-03	s	TRANSISTOR 2SA1220A-P
Q406	8-729-216-22	s	TRANSISTOR 2SA1162
Q407	8-729-216-22	s	TRANSISTOR 2SA1162
Q409	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q410	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q411	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q412	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q413	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q414	8-729-216-22	s	TRANSISTOR 2SA1162
Q416	8-729-900-53	s	TRANSISTOR DTC114EK
Q501	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q504	8-729-216-22	s	TRANSISTOR 2SA1162
Q505	8-729-216-22	s	TRANSISTOR 2SA1162
R101	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R102	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R103	1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R104	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R105	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R106	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R107	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R108	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R109	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R110	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R111	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R112	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R113	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R114	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R115	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R116	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R117	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R118	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R119	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R120	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R121	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R122	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R123	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R124	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R125	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R126	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R127	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R128	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R129	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R130	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R131	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R132	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R133	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R134	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R135	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R136	1-249-381-11	s	CARBON 1 5% 1/4W
R137	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R138	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R139	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R140	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R141	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R142	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R144	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R145	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R146	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R147	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R149	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R150	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R151	1-216-295-00	s	METAL, CHIP 0-OHM
R154	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R155	1-216-107-00	s	METAL, CHIP 270K 5% 1/10W
R157	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R158	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R159	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R160	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R161	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R162	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R164	1-249-426-11	s	CARBON 5.6K 5% 1/4W
R165	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R166	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R167	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R168	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R201	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R202	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R203	1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R204	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R205	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R206	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R207	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R208	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R209	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R210	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R211	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R212	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R213	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R214	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R215	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R216	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R217	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R218	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R219	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R220	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R221	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R222	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R223	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R224	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R225	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R226	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R227	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R228	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R229	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R230	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R231	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R232	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R233	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R234	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R235	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R236	1-249-381-11	s	CARBON 1 5% 1/4W
R237	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R238	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R239	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R240	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R241	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R242	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R244	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R245	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R246	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R247	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R249	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R250	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R251	1-216-295-00	s	METAL, CHIP 0-OHM
R254	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R255	1-216-107-00	s	METAL, CHIP 270K 5% 1/10W
R257	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R258	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R259	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R260	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R261	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R262	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R264	1-249-426-11	s	CARBON 5.6K 5% 1/4W
R265	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R266	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R267	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R268	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R301	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R302	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R303	1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R304	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R305	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R306	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R307	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R308	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R309	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R310	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R311	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R312	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R313	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R314	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R315	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R316	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R317	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R318	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R319	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R320	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R321	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R322	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R323	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R324	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R325	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R326	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R327	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R328	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R329	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R330	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R331	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R332	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R333	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R334	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R335	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R336	1-249-381-11	s	CARBON 1 5% 1/4W
R337	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R338	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R339	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R340	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R341	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R342	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R344	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R345	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R346	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R347	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R349	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R350	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R351	1-216-295-00	s	METAL, CHIP 0-OHM
R354	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R355	1-216-107-00	s	METAL, CHIP 270K 5% 1/10W
R357	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R358	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R359	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R360	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R361	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R362	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R364	1-249-426-11	s	CARBON 5.6K 5% 1/4W
R365	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R366	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R367	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R368	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R401	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R402	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R403	1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R404	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R405	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R406	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R407	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R408	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R409	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R410	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R411	1-216-022-00	s	METAL, CHIP 75 5% 1/10W
R412	1-208-775-11	s	METAL, CHIP 510 0.50% 1/10W
R413	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R414	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R415	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R416	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R417	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R418	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R419	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R420	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R421	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R422	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R423	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R424	1-208-771-11	s	METAL, CHIP 360 0.50% 1/10W
R425	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R426	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R427	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R428	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R429	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R430	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R431	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R432	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R433	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R434	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R435	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R436	1-249-381-11	s	CARBON 1 5% 1/4W
R437	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R438	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R439	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R440	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R441	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R442	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R444	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R445	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R446	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R447	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R449	1-208-800-11	s	METAL, CHIP 5.6K 0.50% 1/10W
R450	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R451	1-216-295-00	s	METAL, CHIP 0-OHM
R454	1-208-822-11	s	METAL, CHIP 47K 0.50% 1/10W
R455	1-216-107-00	s	METAL, CHIP 270K 5% 1/10W
R457	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R458	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R459	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R460	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R461	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R462	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R464	1-249-426-11	s	CARBON 5.6K 5% 1/4W
R465	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R466	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R467	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R468	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R502	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W [for YS-W250]
R502	1-218-755-11	s	METAL 130K 0.50% 1/10W [for YS-W250P]
R505	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R506	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R507	1-216-295-00	s	METAL, CHIP 0-OHM
R508	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R509	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R510	1-216-295-00	s	METAL, CHIP 0-OHM
R511	1-216-295-00	s	METAL, CHIP 0-OHM
R512	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R513	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R514	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R515	1-216-027-00	s	METAL, CHIP 120 5% 1/10W
R516	1-216-295-00	s	METAL, CHIP 0-OHM
R518	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R519	1-216-059-00	s	METAL, CHIP 2.7K 5% 1/10W
R521	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R522	1-216-045-00	s	METAL, CHIP 680 5% 1/10W
R524	1-216-295-00	s	METAL, CHIP 0-OHM
R526	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R527	1-216-025-00	s	METAL, CHIP 100 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R528	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R529	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R530	1-218-755-11	s	METAL 130K 0.50% 1/10W
R531	1-216-113-00	s	METAL, CHIP 470K 5% 1/10W
R532	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R533	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for YS-W250P]
R534	1-216-295-00	s	METAL, CHIP 0-OHM
R535	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R536	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R537	1-216-295-00	s	METAL, CHIP 0-OHM [for YS-W250]
R538	1-216-095-00	s	METAL, CHIP 82K 5% 1/10W
R539	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R540	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R542	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R543	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R544	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R545	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R546	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R548	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R549	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R550	1-216-075-00	s	METAL, CHIP 12K 5% 1/10W
R551	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
RV501	1-241-766-11	s	RES, ADJ, METAL 47K
X501	1-567-866-11	s	CRYSTAL, 14.31818MHz [for YS-W250]
X501	1-760-456-11	s	CRYSTAL (VCO) 14.1875MHz [for YS-W250P]

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-239-231-11	s	FILTER, DATA LINE
CN1	⚠ 1-251-381-11	s	INLET, AC (3P) [for YS-W250P]
CN1	⚠ 1-526-954-11	s	INLET, AC [for YS-W250]
CN301	1-580-724-21	s	CONNECTOR, BNC "CAMERA IN 1"
CN302	1-580-724-21	s	CONNECTOR, BNC "CAMERA IN 2"
CN303	1-580-724-21	s	CONNECTOR, BNC "CAMERA IN 3"
CN304	1-580-724-21	s	CONNECTOR, BNC "CAMERA IN 4"
CN305	1-580-724-21	s	CONNECTOR, BNC "SYNC IN"
CN306	1-580-724-21	s	CONNECTOR, BNC "SYNC IN"
CN307	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN308	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN309	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN310	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN311	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN312	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN313	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
CN314	1-580-724-21	s	CONNECTOR, BNC "VIDEO OUT A-1"
S1	⚠ 1-570-384-11	s	SWITCH, ROCKER (AC POWER)

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-534-827-14	s	CORD, POWER [for YS-W250]
1pc	⚠ 1-590-910-21	s	CORD SET, POWER [for YS-W250P]
1pc	3-856-046-11	s	MANUAL, INSTRUCTION
2pcs	4-391-010-11	s	BRACKET (1U), RACK MOUNT
1pc	4-391-032-01	o	CUSHION (FRONT)
1pc	4-391-033-01	o	CUSHION (REAR)
4pcs	7-682-660-09	s	SCREW +PS 4X6